```
cccatgcggg agcctgggag cccagctgaa tccgagggcc gggaccaggc ccagccgtcc   1320
ccggtaaccc agcctggcgc ctcggcctag gggaggggtg agacgctcgc tgccgtgccc   1380
gccacaccaa gatgttgggg ctgcctggcg cccactggag acagacagac agacgcctgt   1440
ccccccgggac cgaggcctgt gccgtcccca cccgccccaa catggtgctc atccttgccg   1500
agacccctgc agtccgtgcc cgcgcccagc ccagctgccc cggctgcacg cctgctgctc   1560
ccagctcgcc cggctgccac aagctctctg cgggtccatc ctccccaccg gggtccgtcc   1620
tcgcaggccc tgcccggcct ctctgcagac cctcaagcgt cgtctgcatg agtgagcagg   1680
cgtgggtgga ctctggccgc ggccacactt ggtgctcacc agctgcttcg gccttcaggt   1740
gacctccctc cccacggcat cctgctctcc gggtggaaga gcagctttct gtctcccaga   1800
aggcatcgct tttccctctt gagcagatcg gagcccctgg gaggtttgga agctgcctcc   1860
aagcctagga cacggaccgg tggccggggc ggcctctggc ccctgacgct ggctgagaca   1920
ggcccgtggg gcggggtttt ggggcgtgaa caaggctggc agtaagtgga caagctgctc   1980
ccctggctaa ggccctgccc tgccctcagg ggtccctgga gccctgggag ggagggactg   2040
ggtcgtggga ggtcctggta gctcccggca cccaacctcg cttcccgtgt gggccccgtg   2100
ttgctttttct gctgagaggg gcttgggcct cggttctccc tgg               2143
```

```
        <400> 6645
ttttttttttt ttgcaagctc tcttagcttg tgcattcaga ccagacatca catgtaaata    60
tttatacaca gggaggtggg aggggagggc cacacgatgc gttgctgcgc cccccgcctt   120
cctctcactc ctcttataag aagcgcggag tgttctgcct tttcacctac gcagccccag   180
cccggcccccc ctggggaccc tagagagggt gtcctttctg tttatccttc tctttgctcc   240
agatggctgc gctctctagg ggcgcgatgt gtgtgtggtg gagccgggtc ccctccagca   300
aggagggcgg cccactgctc tgctggtgct ggaaggagga ccccgggtag tggccgatga   360
cctcgctgta ggtggggcgg cggcccctcc atgcgcccgc cgctgccgta gcacgtggcg   420
ctgatgcccg agttactgct ggggggggcag gggccgccca gcctggcact atccatcagg   480
tcactgtcga agatggttct gtttgggggt gcgcgcaccg actcccggtt cagttccagc   540
tgctgctcgg ggtcccgaag ctggagggtg cagggccct ggtagggtgg gggctcctcc   600
ccgtccgaca gcgaaatagt gggcggcagg tcgatctcgt gctgcaggta cggataggtg   660
ggctggaagc ggtggaagcg ctcccgctgg gcgaagggcg gcacggccag gcggtcggtg   720
ggccgaggcg gggcgtagac ctgcggctct gggattccgt tgcctgacac tgtgctctcc   780
gagggccaca ggcatccttc tgaggacagg gcatcttctc tcctncgccc ctggctgtgc   840
cggctgatga aggaccgtgc agacagcttg tagtggctca gcaggcacgt gatcaccacc   900
accatcacca tcatcaccac cacggatgat gatgatctga acaanatctt cagtccgctg   960
.gtttcgcagg agactgtccg ccttcagttc tccagcagct cggggatcat ggcccactga  1020
```

119

<210> 6646
<211> 1856
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (154)...(1382)
<223> similar to gi3041855 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6646
tgccggagtc gagcgggtgc tgctagcgga ggcgccatat tggaggggac aaaactccgg   60
cgacagcgag ttgacacaaa taaaccccctg gaccccctcttg ttccctcagc tctaagggcc   120
gcgatgttgt acctagaaga ctatctggaa atgattgagc agcttcctat ggatctgcgg   180
gaccgcttca cggaaatgcg cgagatggac ctgcaggtgc agaatgcaat ggatcaacta   240
gaacaaagag tcagtgaatt ctttatgaat gcaaagaaaa ataaacctga gtggagggaa   300
gagcaaatgg catccatcaa aaaagactac tataaagctt tggaagatgc agatgagaag   360
gttcagttgg caaaccagat atatgacttg gtagatcgac acttgagaaa gctggatcag   420
gaactggcta agtttaaaat ggagctggaa gctgataatg ctggaattac agaaatatta   480
gagaggcgat ctttggaatt agacactcct tcacagccag tgaacaatca ccatgctcat   540
tcacatactc cagtggaaaa aaggaaatat aatccaactt ctcaccatac gacaacagat   600
catattcctg aaaagaaatt taaatctgaa gctcttctat ccacccttac gtcagatgcc   660
tctaaggaaa atacactagg ttgtcgaaat aataattcca cagcctcttc taacaatgcc   720
tacaatgtga attcctccca acctctggga tcctataaca ttggctcgtt atcttcagga   780
actggtgcag ggggcatttta ccatggcagc tgctcaagca gttcaggcta cagctcagat   840
gaaggaggga cgaagaacat caagtttaaa agccagttat gaagcattta agaataatga   900
ctttcagttg ggaaaagaat tttcaatggc cagggaaaca gttggctatt catcatcttc   960
ggcacttatg acaacattaa cacagaatgc cagttcatca gcagccgact cacggagtgg   1020
tcgaaagagc aaaaacaaca acaagtcttc aagccagcag tcatcatctt cctcctcctc   1080
ttcttcctta tcatcgggtt cttcatcatc aactgttgta caagaaatct ctcaacaaac   1140
aactgtagtg ccagaatctg attcaaatag tcaggttgat tggacttacg acccaaatga   1200
acctcgatac tgcatttgta atcaggtatc ttatggtgag atggtgggat gtgatacccca   1260
agattgccct atagaatggt tccattatgg ctgcgttgga ttgacagagg caccaaaagg   1320
caaatggtac tgtccacagt gcactggctg caatgaagag aagaggcagc agacacaaat   1380
aaaaggtggt ccttttggtt tgaaggaaga aataaacttc agcctgaagg ttttaatatg   1440
gggaccttaa aaagaagaga agagaaagaa gaaacaatgc cattcccccg gcaacccccac   1500
ctaaaggatt tacccataga caatccccta taagatcttg aaccttgaat tttaatgggg   1560
ttgtatttta aataatgtaa agtaaattat ttaatgcacc ccccggtgt gcctatgaat   1620
attattccca gttagcccctt ggattatttc cagtggccca acatatgcag acatttgtac   1680
tcctcaaccc attttctcaa agtaatgggc attctatgat ttagacttca aggaattcca   1740
atgatgaaga ttttaaggaa agtattttat attcaacagg tatattctgc tgcatgtact   1800
gtactccaga gctgttatgt aacactgtat ataaatggtt gcaaaaaaaa aaaaaa   1856

<210> 6647
<211> 827
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6647

```
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag      60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc     120
cctgtgggtg gggtgggggc tggaacctat gaacattctg caggggccac tgacttctcc     180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg     240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg     300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt     360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac     420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg     480
aggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa     540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct     600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag     660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt     720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac     780
cgcnctgact aatgtcatca gtgnntcaat tnnccccccct cccctcg                   827
```


<210> 6648
<211> 3090
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (98)...(2465)
<223> similar to gi220912 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6648

```
gtccgggttc gcttgcctcg tcagcgtccg cgttttttccc ggcccccccc aaccccccccg      60
gacaggaccc ccttgagctt gtccctcagc tgccaccatg agcgaccaag atcactccat     120
ggatgaaatg acagctgtgg tgaaaattga aaaaggagtt ggtggcaata atgggggcaa     180
```

```
tggtaatggt ggtggtgcct tttcacaggc tcgaagtagc agcacaggca gtagcagcag    240
cactggagga ggagggcagg agtcccagcc atcccctttg gctctgctgg cagcaacttg    300
cagcagaatt gagtcaccca atgagaacag caacaactcc cagggcccga gtcagtcagg    360
gggaacaggt gagcttgacc tcacagccac acaactttca caggggtgcca atggctggca    420
gatcatctct tcctcctctg gggctacccc tacctcaaag gaacagagtg gcagcagtac    480
caatggcagc aatggcagtg agtcttccaa gaatcgcaca gtctctggtg ggcagtatgt    540
tgtggctgcc gctcccaact tacagaacca gcaagttctg acaggactac ctggagtgat    600
gcctaatatt cagtatcaag taatcccaca gttccagacc gttgatgggc aacagctgca    660
gtttgctgcc actggggccc aagtgcagca ggatggttct ggtcaaatac agatcatacc    720
aggtgcaaac caacagatta tcacaaatcg aggaagtgga ggcaacatca ttgctgctat    780
gccaaaccta ctccagcagg ctgtccccct ccaaggcctg gctaataatg tactctcagg    840
acagactcag tatgtgacca atgtaccagt ggccctgaat gggaacatca ccttgctacc    900
tgtcaacagc gtttctgcag ctaccttgac tcccagctct caggcagtca cgatcagcag    960
ctctgggtcc caggagagtg gctcacagcc tgtcacctca gggactacca tcagttctgc   1020
cagcttggta tcatcacaag ccagttccag ctcctttttc accaatgcca atagctactc   1080
aactactact accaccagca acatgggaat tatgaacttt actaccagtg atcatcagg   1140
gaccaactct caaggccaga caccccagag ggtcagtggg ctacagggggt ctgatgctct   1200
gaacatccag caaaaccaga catctggagg ctcattgcaa gcaggccagc aaaaagaagg   1260
agagcaaaaa ccagcagacc caagcagcac caaaatcttt atcccggcct cagctagttc   1320
aagggggggac aggccctcca aggctttcca agcagcacca ttgtcagggc agacctttac   1380
aactcaagcc atctcccagg aaaccctcca gaacctccag cttcaggctg ttccaaactc   1440
tggtcccatc atcatccgga caccaacagt ggggcccaat ggacaggtca gttggcagac   1500
tctacagctg cagaacctcc aagttcagaa cccacaagcc caaacaatca ccttagcccc   1560
aatgcagggt gtttccttgg ggcagaccag cagcagcaac accactctca cacccattgc   1620
ctcagctgct tccattcctg ctggcacagt cactgtgaat gctgctcaac tctcctccat   1680
gccaggcctc cagaccatta acctcagtgc attgggtact tcaggaatcc aggtgcaccc   1740
aattcaaggc ctgccgttgg ctatagcaaa tgccccaggt gatcatggag ctcagcttgg   1800
tctccatggg gctggtggtg atggaataca tgatgacaca gcaggtggag aggaaggaga   1860
aaacagccca gatgcccaac cccaagccgg tcggaggacc cggcgggaag catgcacctg   1920
cccctactgt aaagacagtg aaggaagggg ctcggggggat cctggcaaaa agaaacagca   1980
tatttgccac atccaaggct gtgggaaagt gtatggcaag acctctcacc tgcgggcaca   2040
cttgcgctgg catacaggcg agaggccatt tatgtgtacc tggtcatact gtgggaaacg   2100
cttcacacgt tcggatgagc tacagaggca caaacgtaca cacacaggtg agaagaaatt   2160
tgcctgccct gagtgtccta agcgcttcat gaggagtgac cacctgtcaa aacatatcaa   2220
gacccaccag aataagaagg gaggcccagg tgtagctctg agtgtgggca ctttgcccct   2280
ggacagtggg gcaggttcag aaggcagtgg cactgccact ccttcagccc ttattaccac   2340
caatatggta gccatggagg ccatctgtcc agagggcatt gcccgtcttg ccaacagtgg   2400
catcaacgtt aaagaaggtg gccagttctg cagccccata aataccagtg ccaatggctt   2460
ctgaggtcaa gccaccgggg ccaagagaca tagtggccaa tcccccttac ccccgggatg   2520
caaggtagca tgggtccaag agacatggaa gagagagcca tgaagcatta aaatgcatgg   2580
tgttgagaag aatcaggaga gggatacaag agaggagatg gggtcccggc acccatctgt   2640
atcatcagtg cctctttgaa ggtgggaaac attagtgaaa attctgttgg tgccacgctt   2700
tgatgagcat ttgtttgacc ccagtttctt cttacacttc ttacccccag cctacccttc   2760
ctgcatttct cttctcagct cttccatgat ggattccccc ccctttccta aagccatcat   2820
gccttgataa atatatatga tcattgaaat actttttaac aaaaaacaga ttctatatta   2880
ttatatatat atatatatat aaagatatat agagatgcat tcacaggggt tggctgggag   2940
gaggaagacc attctgtgac caaaatacct tggtcatttt ttttatattg ccttatttcc   3000
cttatggctg agccttgttg tgacacatca agcttttctg tagatgttgt cttggcttcc   3060
caccagctta agcgttcata tgctctgctt                                     3090


        <210> 6649
        <211> 3104
        <212> DNA
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (47)...(1455)
<223> similar to gi4680659 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6649
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cgacgatttc gtgggagttc tgagtgcgac ggcgcaggtc tgcaccatgg cggcccggct        60
tgtcagccga tgcggggctg tgcgtgcagc tccccacagc ggcccgctgg tgtcctggcg       120
caggtggtcc ggcgcctcaa cagacaccgt gtatgacgtg gtggtgtcgg gtggaggcct       180
ggtgggcgct gccatggcct gtgccttggg atatgatatt cactttcatg acaagaaaat       240
cctgttgctc gaagcaggtc caaagaaagt actggagaaa ttgtcagaaa cttacagcaa       300
cagggtcagc tccatttccc ctggctctgc aacgcttctc agtagttttg gtgcctggga       360
ccatatctgc aacatgagat acagagcctt tcggcgaatg caggtgtggg acgcctgctc       420
agaggccctg ataatgtttg ataaggataa tttagatgac atgggctata tccttggaga       480
atgatgttca tcatgcatgc tttcactaag cagttggagg ctgtgtctga ccgagtgacg       540
gttctctaca ggagcaaagc cattcgctat acctggcctt gtccatttcc tatggccgac       600
tccagcccctt gggttcatat taccctaggt gatggcagca ccttccagac caaattgttg       660
ataggtgcag atggtcacaa ctccggagta cggcaggctg ttggaatcca gaatgtgagc       720
tggaactatg accagtctgc tgttgtggct actctgcatt tatcagaggc cacagaaaac       780
aacgtagcct ggcagagatt tcttccctct gggcctattg ctctgctccc gctctcagac       840
accttgagtt ccttggtttg gtccacgtcc catgaacatg cagcagagct agttagcatg       900
gatgaggaaa aatttgtgga tgccgttaac tctgcctttt ggagtgatgc tgaccacacg       960
gacttcatcg acacagctgg tgccatgctg cagtatgctg tcagccttct gaagcccact      1020
aaggtctcgg ctcgccagct gcccccaagc gtagccaggg tggatgccaa aagccgagtt      1080
ctgtttcctc ttgggttggg acatgctgct gagtacgtca ggcctcgggt ggcgctcatt      1140
ggggatgcag cccacagagt ccatccgctt gcaggacagg gtgtcaacat gggctttggg      1200
gatatctcca gcttggccca tcacctcagt acggcagcct tcaatgggaa ggacttaggt      1260
tccatgagcc acctcacagg ttatgaaaca gaaagacagc gtcacaacac tgctcttctg      1320
gctgctacag acttactaaa aaggctctat tctaccagtg cctccccgct tgtgttgctc      1380
aggacgtggg gcttgcaggc cacaaatgca gtgtctccac tcaaagaaca gattatggcc      1440
tttgcaagca aatgagtact cctctcctaa agaaagatta cgttgatgaa aaagaacatc      1500
ctgcccagga cccatcatac atattttcaa gatcttattt aatttaataa acttacttta      1560
cattaaaatt ctcttttttct tctttgctta atgggcctgt ggcacccaaa taatgaatga      1620
taatttgctg tgaggagcgt atattagcca gaccaaagga aaaaacttcg aaggaagact      1680
tacaatttgg ttgaaaagag ctttttatta ctaaaaaacc cacaaggtgc tgtctcactc      1740
atttccagtt aatcatttct aaagagaaaa tttacatttt gtttttgttt taatgttggt      1800
cataaattta tacagttgtt ttttcgatag aggtaagaat tagactcgat gcattttttgt      1860
tagaattgct gtttaaatgt taacatcagg aatgcaaatt aaatataaat tgctttaacc      1920
tttgttacag gggatactgg gacttttctg aaaggaaaac cagggtctca ttaatgctag      1980
gttattactt tatcacaggc accagatttt ccatttttatt tatgggttcc tctctgggac      2040
accactggtc cggtttaata aaacaataaa taattcattg cacagatccg aagtacctca      2100
ggaaccagat cacaagggaa accgattagc agcagaattt gttcatgttt ggtggcagac      2160
tggtggccaa ctggagggag gggagtttta ctgtgggttt ttgaagaggt ctcgtcacaa      2220
gaccagagat gcctcttgaa gagattttta ggttgtaggt ttgcttactc taaagaacat      2280
cttgcccaga agtctgattt gagatgaaat gaagagaaac agtctgcttt tgaaccaagt      2340
aaggtattct tgggaataat ttttagagcc atgagaaatc tattcttaca ggggtgcttt      2400
tcaggcaaat gcagaaaatt taaaagagtc tagaacaaaa aagtgacaat gtcacaacct      2460
tgctggaatc tcaggaaaaa gaattaaaga tggcagctgc tgtgaaaagc tgtgtgactc      2520
ctggcggaga ctgcagggac aaggtcatct ttcacaaaaa atggaaaggt ggcctagatg      2580
aggaggacac agactctcca gaagttatgc aaacaaaatc aggcaagatg aagaatttta      2640
aggcacacct ccattggccc acagagagtg ttcttcatat gacaatgatg ttaaacacca      2700
```

```
tctgtcacgt accaggccat gtcctaagta ttttaaatat gttaacacat ctacaaagag    2760
gaaactatta gaatctgtag gacctcttaa gcccaaaggg tctactgcag gcaggatggg    2820
cgttacagaa aaaaataaaa actctcattc caaattgctc ctaagatgga caaattggtt    2880
acttctccag aaggtctaat caaggttaac aaaataggta agttcgtgga gttagaatgc    2940
atcttccctg gagttcagag gtatttggga tgaccaaagg agtctgctgg acagtatgtg    3000
tgttttacaa aatggccccc acagtgatta aagaccagag acttatatct ctgcatttgt    3060
caagctggaa cagtctttag tgaacacagc gaattccacc gcac                     3104
```


        <210> 6650
        <211> 5732
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (16)...(4348)
        <223> similar to gi3043652 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6650

```
tttgccgata ccttaggata caacatagaa cctattatgc tctatcagga tatgacagcg      60
cgtgattcgc tacagcagag atacaccctt ccaaatggag acactgcctg gcggtcctca     120
cccctttgtga atgctgctct ggaaggcaag ctggtcctgc tggatggcat tcaccgggtg     180
aatgcgggca cgcttgctgt attgcaaagg ttaatccatg atcgagagct aagcctctat     240
gatggttcta ggctgctgag agaagacagg tatatgcgtt taaaggagga gctgcaactg     300
tctgatgaac agctacagaa gagatccatt tttcctatcc atccctcctt cagaatcatt     360
gccttggcag aacccccttgt tattggaagc acagcacacc agtggctggg accagaattc     420
ttaaccatgt tctttttttcca ttacatgaaa ccacttgtga aaagtgaaga atccaagtg     480
attaaggaaa aggtcccaaa tgtacctcag gaagctctgg ataagttatt atcatttaca     540
cacaaactca gagaaacaca ggatccaacg gcacaatcat tagcggcatc actttctacc     600
agacaactgt tgcgaatttc tcgtcggctg tcacagtatc ctaatgaaaa tcttcacagt     660
gctgttacta aagcctgcct ttccaggttt ttacccagtc ttgctaggtc agcattagaa     720
aaaaatctgg cagatgctac aatagaaata aatactgatg acaatttgga gccagaactg     780
aaggattaca aatgtgaagt aacatctgga actctgagga ttggtgctgt tagtgcaccg     840
atctataatg cacatgagaa aatgaaagtg cctgatgttc ttttctatga caacattcag     900
catgtgatag tgatggaaga tatgctgaaa gactttctcc ttggagaaca cttattattg     960
gttggcaacc agggtgtagg aaaaaacaag attgttgaca gattccttca cctgctcaac    1020
aggaccccga gaatatattc agctacacag gggattacca cagttacaaa ctcttacgct    1080
tcagccttcg gttaaagacg gacttattgt atatgaagac tcacctttgg ttaaagcagt    1140
aaagttgggt catattctgg tagtagatga ggctgacaaa gctccaacaa atgtcacgtg    1200
tattttaaaa actctagtag aaaatggaga aatgattcta gcagatggaa gacgcattgt    1260
tgcaaattct gctaatgtga atggaagaga aaatgttgta gtgattcatc ctgattttag    1320
gatgattgtt ctggcaaata gacctggatt tcctttccta ggcaatgatt tcttcggtac    1380
cttaggtgat atttttagct gccatgcagt tgataacccc aaaccccact cggagctcga    1440
gatgctcaga cagtatggac caaatgtgcc tgagcccatc cttcagaagc ttgtggctgc    1500
ctttggagag ctgaggagtt tggctgacca agggattatt aactatcctt attctaccag    1560
agaagttgtc aacatagtca aacatttaca gaaatttccg actgaaggtc tctccagtgt    1620
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5310

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5314

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<210> 6656
<211> 7268
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<223> similar to gi2988422 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

5317

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gggcacacgc agcgcccggt ctcggcctcg cacagggctc caaagcggca ctgcccgcag   5700
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gcggccccccg atcggcccat gacacagtcg ttttcgtagg tgactccgtc gtccccacac   6240
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cgcgggttca cacggcagct gcggctcggg tcagggaggg cgccctgaca ggggtcacaa   6360
gggccgtcga acttcttgaa gacattctcc tggcgggcgc aggcgcggcg caggagctgg   6420
cactcgccgg ggtagtcggc gccgtcgctg ccgcagacgg tcccctcggg ggcgccacgg   6480
caggtcgcgg ggcacaggca cgaggccgtc agcccgtcgg ccgagcgcgc acaggtgctg   6540
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aggcggatgc ggcgctgctg gctgcactgc gcccgctgca gctcgcattc gttgctgtag   6660
gtggaggcgt ccgacccaca cacaggcgcc accacgctgg ggcacgggct cttcttgcag   6720
```

```
acgcaggacg cccggcccgg cccctccgcg ttgggctcgc acacggcgcc gaagccgcac    6780
agcattcccc ggcacgcatc aggaggcgtc ggaggcactg gagtgaagtg ggtcccgggt    6840
ttatcttcca cacagaactc cacctcctcc aggttccgca gggtgatccg catgaggctg    6900
gagttgagca tcagctcgtt cttgtgggct ggccacaggt atgggggtgc agggttcaca    6960
aagaagatcc tggtgtcccc agtggacacc tggttgtcac agatgagggg gtctccaaag    7020
ccgctgatca ccaccttgtt gccgccgtcc agcaggctct cccgggccac caggtctttg    7080
cccttcaagt accgccagac ccgaaccttg caggagtacg tgtgctgcac cgggtccacg    7140
ttgaggatct cctccaccgt cccggtgagc accacgttcg cctcctcctc gcgccgctcc    7200
agcgcgcgct ccgggcatgt cccgccggct ccgggcagga cgcacgcggc caccacaagg    7260
agaggcag                                                            7268
```

<210> 6657
<211> 1778
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1642)...(963)
<223> similar to gi3881701 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

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<400> 6657
ttttttttgc aaccacccat caataaactt tcttttttat tattaagtgg gggcagggtt      60
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gaggacagga caaaaaggca tgagacagct ggacacctgg agagaggtga cacaggacag     180
agtcctcacc cggctgccct gggcctcggg gagctcaggc tgcagtccct gggcctggtg     240
gcacccacag cacggcagtc tctggctggg cttcggggag cccacatgtc tgatcggcag     300
ggcttggctg gccaggcggt gggcaccaac gtggtgggtg ggcagtcctg ggcttccagg     360
aggcctcctg gggactcagg ctcttcagtg gggtgtgcct gtcagggtgc aggtgggttc     420
tgtggctaca ctcccatcct gtcttccctc tgtgttccca aacctgctct ggtccctaga     480
tgtctggaga cctgggggtcg tccagctcag gaggccatct ggagctgccg ctgcagcctg     540
cagagtgtaa ggtggcgttt gttaccaaga cctgtgggtg ttctggggct tcctgaaggg     600
aaaggcatta cctgcagtga agccataagg acacagtgtc cagcaaaaag gcactgggag     660
tccagaaaga gccactcccc accgctgcac ctgccaccat gggatggggt cccggagccc     720
tgggcagctt ctggagctgc cctcttgggg gcctgggcag tggagctggc ttggggacag     780
atgttctgca ggccgggggt cagctgtgga aggcagacca ggccacccc gaggcgtaga     840
actccacgct gctgggccag tcgccgtccc tgctgccctc cttgtcctcg tcggagtcat     900
cgtcatctcc actggacgtc cgcagatggg ccgggccagg tggctggctg ccctggggac     960
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gcactcagcg cagaccacga cacggcactt gcggcagtgg tggcgcctcg tgagggcaga    1140
gaagcgcgtc tgcgtgcagc gcatgcagat gtccgtggcc ttgtcgggga tccagggtgc    1200
cgcgtgctcc gtgctgggcg gggcggcccg tggccctcag ttgccgccgc acgcactcct    1260
cgatgtggct aatccattcc tggcgctccg tagcggaggc ggccgacacc acaaaggact    1320
tcttggccgt cttgatcatc cagcggttct tggcctgcag cgtctccggc aacagctcca    1380
gtgtgacctc ctccaggggg atgatgtgct ggctgcggta cttgcgcttg ttgagcacga    1440
tgctgccata caccaggatg tcgttaaaga ggaagaagat gcgcggcttg ccttcttgc     1500
ggcactcttt ggtcagcacg ccctcgccca gcagcactcg gcctggcagc gccagcggct    1560
gccccgaggc cccgaagcag ctctccactg ccgcgatgcg ctggctgttg atctccgtgt    1620
```

5320

```
tggccaagtg gtccaccatc gtctccagct ggcggctcca ccagcttaca tctgcgcgtt    1680
tccccgggga ttccgcctcg gacgctctga cccctgaccg ctctccccag gctccctgca    1740
ggttcacccc gcaagccgcc caggagcgcc cttcccaa                            1778
```

<210> 6658
<211> 826
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (651)...(342)
<223> similar to gi9447 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6658

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tacccctta  aaattttat  tttccctaaa ggccttaaat tttggaggga gggtgtgccc      60
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gcccccata  aagaaaaaaa tattaccttg ccagcccccg gaaaaattgg gccccccaag     180
ggttctttaa aaagggcccc cccttttttt ttttttgagg actgaaataa gagcatgata    240
tttcacaatg aaaataaaac caggccacgc aagaaccact gcggcctgcc cgtgacttgg    300
cttcccctgc ccagcatcct gtcctccctg gtccatctct ggtgaggacg gctgggagtg    360
ggctctgtgg ctgctagcag ggggcaggga ggagctggga ctgtgggtcg tcctggcccg    420
tgggggctgg cggggggtgt tcgggccggg cgaggccccg caggacccgc agggtggcca    480
gggccaggcc cacgagcagg cgcagcaaca ggaaggcgca gggcacggcg atctgcatga    540
ggtggaagat gcccacactg aacctgctca gcaggcaggt ggaggcgaag gccagcaggc    600
tggcacaggg gtacagcgcc agcttggcga acatgagcac atgctcccgg ccgccaaacc    660
acaccgaggg ctgcagcgtc tccgcctggt gcagcagcgc cgtggtccac atggccagct    720
ggaagatgct ggccaggaag atgatggtgc agctgacacg cacgcgctcc agctcatcgc    780
ggggctgccg ggcgaaggcc gaggtctgct ggtaggctag tgggag                   826
```

<210> 6659
<211> 3428
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2305)...(1226)
<223> similar to gi2738898 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6659

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ctgcagcctc cactctgggc ttgccggctg tgaggtgcgc tggttatagg actgtgtggg       120
ggctgcatat caggtgatct cagctatcac cttctcccag cacctggctt ccagctcatg       180
gggtggggact atcccactca cccctctgct ataggcactg cccatcttat gctgctggcc       240
ctggcctcac ctggtcactt ccaccaacag gagctcccag ataacagtgg gttgctggac       300
agatcaggct gggactctta aggggtgggg gacgtggggc cttcagtgct ttatccccta       360
ggaaagggtg cacgttatcc caagggagcc cccaggaagt ggggagggag gggggaggag       420
catgtctagg tgctgaccac ctggagcact tggccagcaa gtgggccgca tgctttggga       480
gcaatgggtg acccagcagg aagcacaaaa gaccggccag tgtgccatca tcaagggctg       540
ctgagcagct tgaagagcca ctgggtgggg agggcacacg gggaggtctc agctggggct       600
gcccctggag gacagggcag ggaacttgag ggctgaggac agaaatctca catgactcca       660
ggaaatagag gaagaggagg atgctgagcg agggattgtg agggagtggg ggtaggtcag       720
aggggggctga actgcaggaa gccagggggа gtcgtggacc actggagctg gccagcccca       780
gggcattggg gacaaggcca ggtcagaggg agacagtgtg ggcctggtgg gtggaccctg       840
gcagaggccc tcttgtcccc cacaaggcca ggccacactg tgattctgcc tgtacctgag       900
catctgtcct gtgctcctag gccggagacc actgtgtgtc aggtggggcg gttggctgag       960
tcccagagaa aaacactcct cactgggcac tcttgatgct tgcacacacc ctgtggttta      1020
tttggtggtc agtaaggaac gtctttgctg ctaagtggaa gaaagctaat ggaacgtaat      1080
caaaatagtg gtttaattga cgaattttac ttgcacctgt gccttcttca gatcctacct      1140
gcctacttag tttacgtgaa ggccgactgc accatgcccc ccaaccccga cccccaccac      1200
acacaacggg gccattgtca tgctaggtgc ttgctttccc cacctcagct ccggagatgt      1260
gatggtcttt ggctctggag gtctcggcca gcctgtcctc catcctgttc tcgttctcgg      1320
gcaccaccag cagccggtgc tgggtttttgg ctccaagctt gtggtcgggc cggtggtcgg      1380
gcctcaagcc tgtcttggtg tccagtttgc actcagcgcg gtacttgccc tccccctccc      1440
tcttgaagga ggcagaagac gtggctttttg ggcttgggggg ctgcagcca cgagtggctt      1500
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ggtccttgca ctcgcaggtc aggttcttgg agcgcgggaa gtccacacgg tgctccttct      1620
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gggctccctg gcacttgatg aactcgagga ggtcgccctg gacgccaagc tccatgatga      2040
tgtagatccg tccgtcagag gtctcaaaga tctcgtaagt cttgatgatg gagccgtggt      2100
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ttttcttgcg ggcgatgatc ttgacagcca cattgaactt gaggcgctca gagtaggcag      2220
atttgacttt tgcgtaggaa cccttgccaa gattgatgcc tacgatgtaa cccttcttcc      2280
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gctgccctgg gctgggcttc gactcagggg tggaacactc agcattgtct ccgggtgact      2460
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ggtctctgga accgtggaag ccaggctggt ctgcaggag cacccactcc ccgcccgctg      2580
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aataatagga acggttttac attcctagtg ccaggaccca tctcgggtcg acaaaatctg      3060
aagacaagtt aagggaacag gcagctgttt gaatagatca attggatagt ctaaggcagc      3120
tctctggacc aagctgtaaa ggagatacaa tcgaataat cactccggta ccacagtaga      3180
caggccttga aggcactggg ccccttttaa tcggacttag caagcatttt ttttgcctct      3240
gaccttctcc ttggaacaaa attagttacc gagtagactt aggtgattgc tgtactgcat      3300
gtaggcacat aaccccaacc tatataaaca gtaagaaaat tgtagcactt tgagttggtc      3360
tgctggaatt atctccagcc ttctccctgt atccagttac actgactaaa ctcccttctc      3420
```

5322

          <210> 6660
          <211> 4362
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (40)...(1563)
          <223> similar to gi4240305 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

          <400> 6660
     gaccgtttta aattcgcggg tcgacgattt cgtgtggagg ccatggggcg cgtcgtcgcg   60
     gagctcgtct cctcgctgct ggggttgtgg ctgttgctgt gcagctgcgg atgccccgag   120
     ggcgccgagc tgcgtgctcc gccagataaa atcgcgatta ttggagccgg aattggtggc   180
     acttcagcag cctattacct gcggcagaaa tttgggaaag atgtgaagat agacctgttt   240
     gaaagagaag aggtcggggg ccgcctggct accatgatgg tgcaggggca agaatacgag   300
     gcaggaggtt ctgtcatcca tcctttaaat ctgcacatga aacgttttgt caaagacctg   360
     ggtctctctg ctgttcaggc ctctggtggc ctactgggga tatataatgg agagactctg   420
     gtatttgagg agagcaactg gttcataatt aacgtgatta aattagtttg cgcctatgga   480
     tttcaatccc tccgtatgca catgtgggta gaggacgtgt tagacaagtt catgaggatc   540
     taccgctacc agtctcatga ctatgccttc agtagtgtcg aaaaattact tcatgctcta   600
     ggaggagatg acttccttgg aatgcttaat cgaacacttc ttgaaacctt gcaaaaggcc   660
     ggcttttctg agaagttcct caatgaaatg attgctcctg ttatgagggt caattatggc   720
     caaagcacgg acatcaatgc ctttgtgggg gcggtgtcac tgtcctgttc tgattctggc   780
     ctttgggcag tagaaggtgg caataaactt gtttgctcag ggcttctgca ggcatccaaa   840
     agcaatctta tatctggctc agtaatgtac atcgaggaga aaacaaagac caagtacaca   900
     ggaaatccaa caaagatgta tgaagtggtc taccaaattg gaactgagac tcgttcagac   960
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     ctcaactttg atcctccaat tgaggaattc catcaatatt atcaacatat agtgacaact   1080
     ttagttaagg gggaattgaa tacatctatc tttagctcta gacccataga taaatttggc   1140
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     ccctctgtga gagaaaagga agatcctgag ccatcaacag atggaacata tgtttggaag   1260
     atcttttccc aagaaactct tactaaagca caaattttaa agctctttct gtcctatgat   1320
     tatgctgtga agaagccatg gcttgcatat cctcactata agcccccgga gaaatgcccc   1380
     tctatcattc tccatgatcg actttattac ctcaatggca tagagtgtgc agcaagtgcc   1440
     catggagatg agtgccattg cagccccaca acgctgcact ccttgcctat caccgctgga   1500
     acgggcacac agacatgatt gatcaggatg gcttatatga gaaacttaaa actgaactat   1560
     gaagtgacac actccttttt cccctcctag ttccaaatga ctatcagtgg caaaaaagaa   1620
     caaaatctga gcagagatga ttttgaacca gatattttgc cattatcatt gtttaataaa   1680
     agtaatccct gctggtcata ggaaaacaca cggttctaat taagtgtgaa ggtatagcta   1740
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     tcttaaactt gtctgataat aagaatcacc tggagttagg aggtggtggt tgcagtgagc   1860
     caatctcacc attgcacttc agcctgagca acacgagcaa aactccgtct caaaagtaaa   1920
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     taaggtgagt acctgaggga gaacttaaag acatcttagt tggggagtag tccttttgaa   2100
     ttttacagct agatataatc ttcagtcaga taaaatttat gggagctggt gtcttatgcc   2160

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cttagtaatg taacttgaag atgttaaaca aaaatctcaa gtaaaatgaa aagcaaatat    2340
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aaatactgag acccccccat aaccagagat tcagattcaa agactgagga taggaccctta    2460
gcattgtagc tatttaaagt ttctaatgtg cacccaggggt tgggaatcac caatgtgggt    2520
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aagagttcaa aagtaaatgc aaccaattta acatgtagtg ttattaaaaa attacaaagg    3060
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ggccaggcat ggtaatgcgc gcctgtggtc ccagctgctc gggaggctga ggtgggagga    3180
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ggcaggtgga tctcttgagg tcgggagttt gagaccagcc tggccaacat ggtgaaaccc    4080
tgtctttact aaaaatacaa aaattagcca ggcatggtgg cgtgtgccag taatcccagc    4140
tacttgggag gctgaggcgc gagaatcgct tgaaccctgg agatggaggt tgcagtgagc    4200
agagatcgca ccactgcact ccagcctggg caagagtgag actgtgtctc aaaaggaaaa    4260
aaaaaaaatt aaaaatgttg ctggtattac atcaaaccta ctctggataa attttccagt    4320
agggcatctg aaattgcttt ggcaaaagca aaacaggtta tc                       4362
```

<210> 6661
<211> 3050
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (31)...(2061)
<223> similar to gi5052319 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6661

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agagcagatc cagctgagct tagaacaata tttttgaagt atgcaagcat tgagaaaaac     120
ggtgaatttt tcatgtcccc caatgacttt gtcactcgat acttgaacat ttttggagaa     180
agccagccta atccaaagac tgtggaactt ttaagtggag tggtggatca gaccaaagat     240
ggattaatat cttttcaaga atttgttgcc tttgaatctg tcctgtgtgc ccctgatgct     300
ttgtttatgg tagcctttca gctgtttgac aaagctggca aaggagaagt aacttttgag     360
gatgttaagc aagtttttgg gacagaccac aattcatcaa catattccat ttaaactggg     420
attcagaatt tggtgcaact acattttgga aaagaaagaa aaagacacct gacatatgcg     480
gaatttactc agtttttatt ggaaatacaa ctggagcacg caaagcaagc ctttgtgcaa     540
cgggacaatg ctaggactgg gagagtcaca gccatcgact ccgagacat catggtcacc     600
atccgccccc atgtcttgac tccttttgta gaagaatgtc tagtagctgc tgctggaggt     660
accacatccc atcaagttag tttctcctat tttaatggat ttaattcgct ccttaacaac     720
atggaactca ttagaaagat ctatagcact ctggctggca ccaggaaaga tgttgaagtg     780
actaaggagg agtttgttct ggcagctcag aaatttggtc aggttacacc catggaagtt     840
gacatcttgt ttcagttagc agatttatat gagccaaggg gacgtatgac cttagcagac     900
attgaacgga ttgctcctct ggaagaggga actctgccct ttaacttggc tgaggcccag     960
aggcagaagg cctcaggtga ttcagctcga ccagttcttc tacaagttgc agagtcggcc    1020
tacaggtttg gtctgggttc tgttgctgga gctgttggag ccactgctgt gtatcctatc    1080
gatcttgtaa aaactcgaat gcagaaccaa cgatcaactg ctcttttgt gggagaactc     1140
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ctgcgtgaag aaggaccaaa agctctgtgg aagggagctg gtgctcgtgt atttcgatcc    1800
tcaccccagt ttggtgtaac tttgctgact tacgaattgc tacagcgatg gttctacatt    1860
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cctgccccga tcctgatca cgttgggggc tacaaactgg cagttgctac atttgcaggg    1980
attgaaaaca aatttggact ttacctacct ctcttcaagc catcagtatc tacctcaaag    2040
gctattggtg gaggcccata ggaagatcag ccctgggata gtgctgtctt tttgtgggta    2100
ctgcagtaaa gaacatccct cctgggaatg aagcaatgct tcatcccttt tacgtccatc    2160
tcttgtttaa attcaagtcc aggctttttt atcatgtgaa atcattcatt ttctgggtgt    2220
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caaatatatt cagcctggct tcaaattgta agcatgcaca aattctgtct ctggattata    2580
ttatgaagct tttatgtgaa acatgtttct ttgtaatgaa aaccacattg gagatgttta    2640
gtaatcatat tgttactggt acccaagact acctagggaa atgccctttg tacctttagg    2700
gaagtacttt tggcatttta ctgtacagac agaaaaaact gagatgtagc ccctctccct    2760
ggaagtgcct aattttgaaa aactgcctca tatgatgtac atgtactgat tactgcctat    2820
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atctccccat cattggtacc caacttgctt ttaaaatcca ctttatcttg aataatgtaa    2940
gacaaatatg ttctgacata agtatttaat tcatgttgcc ttgcataatg gtcagaggcg    3000
catgaatttg tgaaggtgga aataaactat ttgtaaagtg aaaaaaaaa             3050
```

<210> 6662

5325

<211> 1569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (102)...(1529)
<223> similar to gi1006785 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6662
cttcctttcc ccctttgctt tcttccccct ccgctgttgg cgagggcaaa gtggccgtgg   60
cggcgccatg cccgggccgg agtgagtgcg cgcgggcgaa aatggcgtac atccagttgg   120
aaccattaaa cgagggtttt ctttctagaa tctctggtct gctgctgtgc agatggacct   180
gccggcactg ctgtcagaag tgctacgagt ccagctgttg ccagtcaagt gaggatgaag   240
ttgaaattct gggacctttc cctgctcaga cccctccctg gctgatggcc agccggagca   300
gtgacaagga tggtgactct gtccacacgg ccagcgaagt cccgctgacc ccacggacca   360
attccccgga tggaagacgc tcgtcctcag acacatccaa gtctacatac agcctgacgc   420
ggaggatttc gagtcttgag tcaagacgtc ccagctctcc actcatcgat attaaaccca   480
tcgagttttgg cgttctcagc gccaagaagg agcccatcca accttcggtg ctcagacgga   540
cctataaccc cgacgactat ttcaggaagt tcgaacccca cctgtactcc ctcgactcca   600
acagcgacga tgtggactct ctgacagacg aggagatcct gtccaagtac cagctgggca   660
tgctgcactt cagcactcag tacgacctgc tgcacaacca cctcaccgtg cgcgtgatcg   720
aggccaggga cctgccacct cccatctccc acgatggctc gcgccaggac atggcgcact   780
ccaaccccta cgtcaagatc tgtctcctgc cagaccagaa gaactcaaag cagaccggggg   840
tcaaacgcaa gacccagaag cccgtgtttg aggagcgcta caccttcgag atccccttcc   900
tggaggccca gaggaggacc ctgctcctga ccgtggtgga ttttgataag ttctcccgcc   960
actgtgtcat tgggaaagtt tctgtgcctt tgtgtgaagt tgacctggtc aagggcgggc   1020
actggtggaa ggcgctgatt cccagttctc agaatgaagt ggagctgggg gagctgcttc   1080
tgtcactgaa ttatctccca agtgctggca gactgaatgt tgatgtcatt cgagccaagc   1140
aacttcttca gacagatgtg agccaaggtt cagaccccctt tgtgaaaatc cagctggtgc   1200
atggactcaa acttgtgaaa accaagaaga cgtccttctt aagggggcaca attgatcctt   1260
tctacaatga atccttcagc ttcaaagttc cccaagaaga actggaaaat gccagcctag   1320
tgtttacagt tttcggccac aacatgaaga gcagcaatga cttcatcggg aggatcgtca   1380
ttggcccagt actcttcagg cccctctga gcccaaccac tggaggcgca tgctcaacac   1440
gcaccgcaca gccgtggagc agtggcatag cctgaggtcc cgagctgagt gtgaccgcgt   1500
gtctcctgcc tccctggagg tgacctgagg gctgcaggga aggcagcttt catttgttta   1560
aaaaaaaaa   1569

<210> 6663
<211> 620
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (310)...(95)
<223> similar to gi552415 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6663
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tttcgtcagg tgttacattc tctgaacctg ttagacccaa gagagccttc cagtgattaa    60
aaaaccctca tctcaaaggt gtcagagtcc ctctgagaac atctgctctg tgttccttgt   120
gcacagctgt gtgtggatga gtgtgcgagg gcgtgtgcga ggctgtgagc atgaccatgc   180
atgtgtataa gtgcgagtgt gcaagggcgt gcgaggctgt gagcacaact gtgcatgtgt   240
atgaattgca tgcgtgtgca catatgtgca tgtgaatgtg agtgtacaag tgtggatgtg   300
cacacacccg cccacagacg tctcagtgtt ctaccctgat tttggtacct agtccagccc   360
cacagctcag catgtgagca cattcgctgc ccatcatctg tccaggcctg aatggagggg   420
cttccatttt cagcgctaac aagggcacgg ctccccagat gcctcgctgg cgctgggccc   480
ggcctctgcc ctgctctcac ttggctcttg ctgaagcctc cccaggctcc gtgggagtgg   540
ccagttgaga ctcgccacac tcagtgcctg agattccact accagcatca gcttcggggc   600
tttctgcact ttccagtcat                                               620
```

<210> 6664
<211> 2108
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2109)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (604)...(1425)
<223> similar to gi487836 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6664
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gactaccatg ataaaagaat tttcaaggaa ctgaaatcca gtgacaaaaa tgaaatcgat    60
caaggctgta gttgcacacc tgagacattc ctcgagaagg cagaggagaa aggtgtgaaa   120
aacagtgaac cagagaagga tggccaggga caacaaagat tggagctcgg aagttgaatg   180
acagatattc tggagaaaca caccagagat gacaaaaggg tttgtcaaac acagcccaac   240
tcaactggag tcctgagaag gtgaccagac caggatggag gcccagggaa ctcaccagaa   300
gtccccatgc atcagaacaa ggtcgaagca tcctgacgga gtctcgctct ttcgcaaggc   360
tggagtgcaa tggcatgatc tcggctcact gcagcctccg cctcctgggt tcaagtgatt   420
cttctgcctc agcctcccga gtagctggga ctacagaaat gctggtaatt tcagtcactt   480
gctgatgact tctgatgtcc cagcaaatgt tggcattgtt gactgctgag aagatacttc   540
tgaggaccca cgtctaaggt ggacttggtt cgcactcttc tggttagtcc ctgaacagga   600
gtgatgcctc caggcaggtg gcatgctgcc tatccagctc aggcccagtc ttcgagggag   660
cgagggcggc ttcagacagt aaagaaggaa gaagaggatg aaagctatac tccagtgcag   720
gctgccaggc cacagactct caaccgccct ggccaggagc tgttccgcca gctcttcaga   780
cagcttcgct accatgagtc ttcagggccc ctagaaactc tgagccggct ccgggaactc   840
tgtcgctggt ggctgaggcc tgacgttctc tccaaggcac agatcctaga gctgctggtg   900
ctggaacagt tcctgagcat cctgcctggg gagctccggg tttgggtgca gcttcataac   960
cctgagagtg gcgaggaggc tgtggccttg ctggaggagc tgcagaggga ccttgatggg  1020
```

5327

```
acatcctgga gggacccggg ccctgcccag agcccagatg tgcattggat gggtacagga    1080
gccctgcgat ctgcacagat atggtccctt gcttcacctc tcaggagcag ctctgctctg    1140
ggggaccacc tggagcctcc ctatgaaata gaagcacgtg acttcctggc tgggcaatcc    1200
gatactcctg ctgcccagat gcctgccctt ttcccgagag aggggtgccc gggagaccag    1260
gtaacaccaa ccaggtccct gacagcccag ctccaggaga ccatgacttt caaggatgtg    1320
gaggtgacct tctcccagga cgagtggggg tggctggact ctgctcagag gaacctgtac    1380
agggatgtga tgctggagaa ttataggaac atggcttccc tgggtaagta atcgatatcc    1440
tcatgcttct atccatcttt atttctgcct tcttgggttg ttctgtgctg catagaaagg    1500
tacctgacct ggttttagat cctggctctg taactgctga ccagatcact taatctagca    1560
ccttggtagc ctcttttgaa aaatggggag aataatgcct gccattctgg attattgtaa    1620
agattaaagg tggcggggcg tggtggctca cgcctgtaat cccagcactt tgggaggccg    1680
aggcaggtgg atcatgaggt caggagttcg agaccagcct ggccaacatg gtgaaacccc    1740
atctctacta aaaatacaaa aattagccgg gtgtggtggc gggtgcctgt agtcccagct    1800
actcgggagg ctgaggcaga agaatcactt gaacctggga ggcggaggtt gcagtgagct    1860
gagatcatgc cattgcactc cagcctggcg acagagcgag actcattctt cttttatact    1920
tttgaggtta tgtacgtctt tcattctctt tcgccttact ccgggcacgg cctcccggcc    1980
tcggcctcac tcagctcagg caccgcaggc accgtttggc cgcgggctcc gtaaagctgg    2040
aacccttcag agccggagcg ccgccacgaa atcgtcgacc caggatgtnn naancggtac    2100
cgcaggtg                                                             2108
```

```
<400> 6665
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tgcttcgcca cttgctgctt cgccacgaag gagttcccgt gccctgggag cgggttcagg    120
accgcggatc ggaagtgaga atcccagctg tgtgtcaggg ctggaaaggg ctcgggagtg    180
cgcggggcaa gtgaccgtgt gtgtaaagag tgaggcgtat gaggctgtgt cggggcagag    240
cccgaagatc tcatacttac ctggcagggg agataccatg atcacgaagg tggttttccc    300
agggcgaggc ttatccattg cactccggat gtgctgaccc ctgcgatttc cccaaatgtg    360
ggaaactcga ctgcataatt tgtggtagtg ggggactgcg ttcgcgcttt cccctgcctt    420
actggaagtt gaaaggtagt tgttattatg atcggtgctg ggtctggtac gtgtggtgtt    480
taaaacacgg ctgctgggc agttcgcttt cgttttcacg ttttgtggg ggtagggcga    540
ttgcagcttt ttttctcacc ccgcggggga tcctttagta acgcgccaat tatactgtgg    600
gtttatgttc tccagggtat tgtcgtgaaa acgtcacgat ctcgtgcttt ctccaggcca    660
aagccgcgtt tttcctgcaa g                                              681
```

```
5328
```

```
<211> 5681
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (199)...(3295)
<223> similar to gi2443338 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




<400> 6666
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cccctgcctc ccctctcttc cctctccgcc tccccttcc cccctcgcg ataagaagac     180
ccggcggcag gagaggggat gaagatggcg gacgcgaagc agaagcggaa cgagcagctg     240
aaacgctgga tcggctccga gacggacctc gagcctccgg tggtgaagcg ccagaagacc     300
aaggtgaagt tcgacgatgg cgccgtcttc ctggctgctt gctccagcgg cgacacggac     360
gaggtcctca agctgctgca ccgcggcgcc gacatcaatt acgccaatgt ggacggactc     420
actgccctgc accaggcttg cattgatgac aatgttgata tggtgaagtt tctggtagaa     480
aatggagcaa atattaatca acctgataat gaaggctgga taccactaca tgcagcagct     540
tcctgtggat atcttgatat tgcagagttt ttgattggtc aaggagcaca tgtaggggct     600
gtcaacagtg aaggagatac acctttagat attgcggagg aggaggcaat ggaagagcta     660
cttcaaaatg aagttaatcg gcaaggggtt gatatagaag cagctcgaaa ggaagaagaa     720
cggatcatgc ttagagatgc caggcagtgg ctaaatagtg gtcatataaa tgatgtccgg     780
catgcaaaat ctggaggtac agcacttcac gttgcagctg ctaaaggcta tacggaagtt     840
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cctcttcatg ctgcagctca ttggggtaaa gaagaagcat gtcgaatttt agtggacaat     960
ctgtgtgata tggagatggt caacaaagtg ggccaaacag cctttgatgt agcagatgaa    1020
gacatttttag gatatttaga agagttgcaa aagaaacaaa atctgctcca tagtgaaaaa    1080
cgggacaaga aatctccact aattgaatca acagcaaata tggacaataa tcagtcacag    1140
aagacctta aaaacaaaga gacgttgatt attgaaccag agaaaaatgc atcccgtatt    1200
gaatctctgg aacaagaaaa ggttgatgaa gaagaagaag gaaagaagga tgagtctagc    1260
ttgcttctag tgaagaagat gaggaagatg actccggaat cagaagctga aacagataag    1320
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agctgttaca acacctactg tgtcatcagg tcaagcaaca cctacatcac ctattaaaaa    1440
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tgcaacttgg aggttaggac ttagaaagac gggcagctat ggtgcacttg ctgaaatcac    1560
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ggaagatgat cttaaaaaaa atagctcagt taatgaagga tcaacgtatc ataaaagttg    1860
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tacaaagatt acaacgggtt cttcctcagc aggcacacaa agcagtacct caaatcgttt    2040
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tgttgctcca actgttgtaa atgctgcagc ttctaccaca accctgacta caactactgc    2160
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tagggatgaa gagtctgaat cccaaagaaa agcaagatct agacaagcaa gacaatctag    2280
aagatcaaca cagggagtga cattaactga tcttcaagaa gctgagaaaa caataggaag    2340
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gaaacaagat aaagagaaac aagaagaaaa gaaggagtca gaaacatcta gagaagatga    2460
atataaacaa aagtactcca gaacgtatga tgagacttac cagcgttata ggccagtatc    2520
aacttcaagt tcaaccactc catcctcttc actttctact atgagcagtt cactgtatgc    2580




                                  5329
```

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ttcaagtcaa ctaaacaggc caaatagtct tgtaggcata acttctgctt actccagagg    2640
aataacaaaa gaaaatgaaa gagagggaga aaaaagagaa gaggagaaag aaggagaaga    2700
taaatcacaa cctaaatcaa tcagagaacg acgacgacca agagagaaaa gaagatctac    2760
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agaagaggga tccaataaga aagaaactca gacggattcc atttctagat atgaaaccag    2880
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aaagctttat gaacaaattc tagctgaaaa tgaaaagctg aaggcacagc tacatgatac    3060
aaatatggaa ctaacagatc ttaaattaca gttggaaaag gccacccaga gacaagaaag    3120
atttgctgat agatcactgt tggaaatgga aaaaagggaa cgaagagctc tagaaagaag    3180
aatatctgaa atggaagaag agctcaaaat gttaccagac ctaaaagcag acaaccagag    3240
gctaaaggat gaaaatgggg ccttgatcag agttataagc aaactttcca aataaaaaaa    3300
aaaaagcagc aagtaatgga attgcacata ttagtaaccc agtggaccat aattggcagt    3360
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atactttgt ggtcaacaaa aactttt cag ctcttcacag aagacagtta ctcaacattt    3720
tttggatgtg ccacagtttc gagttttttcg atatttaaat tttttggctt ttcatctaag    3780
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taatgctggg ttgcctccca cctggaactg aattgcttgg tggaacatat gctttcactg    3960
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tctgctaatg cagagtaggc tactccatga tagtgttaaa aaacaaaatt tgctaacaat    4260
gtgatataaa gactttaaaa gttacacatt atgtggagcc ctatcatctt tacaaaagtt    4320
tcctactgta aagtgctttt attttcagtt ttcatttgat agtactcaac cataattaaa    4380
gttgcataag ataattgctt tacatttcac ataccctatat ttatctgagt gctgtctaaa    4440
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atgcaaaaaa tactacatct ttctggcaca taactgtctc cttaaccact gaacagttca    4740
gccatttgaa taaattgtac attgtaaagc ttatagtagc tgattgtatt attgattgta    4800
ttgtatacta tattaaatgt gaatttgtac cccttcattt taaaaggtca ttgtgttcta    4860
ctgcctattt tagattactt tggggttggg gaagggtgtt ttggtaagca ggattttaag    4920
tcctctctct ctcgattggt tttatgaaga tataaggtta tgctcttact accaagctca    4980
ggattcttga tttttaaaggt acaaggatag ttgtgggagt tttattttttg gttatatttg    5040
aactgtatga atggtaggtc tgaatattga gaatttccat ggtcttatgt ggaggtaaaa    5100
tatacagata actgatcagt ttgagtgact gcaacatgtt ctggttgcac aacagttagg    5160
catgctatgg tttatatttg tgaagtttgg atgcctgtga agaatgatta aatacatgtt    5220
tctaatattt tagtgttttg tatttaggtt atttattctt tgtatctaaa actgaacagc    5280
tactgtgcta tattgatttt attggtagta ttgagcagac cttgtttctg catgaaacta    5340
gttgcaaaac ccactatttt ggaaataaaa atgtattttg acatatacaa ataaaatgaa    5400
taaaactatt ttaaatgtgt gaacttttaa tgaagacatt ttaaattttg ttctgagata    5460
tttaaattct gcatgggtat ttttttcacta attgctttac ttggatacca atttgaataa    5520
tttctgaaat tgtaatattg tgataatttg cacagcattg tacatgcaca tctgtaaatg    5580
caatcttaat tgccatattt atgcaatcct gtgtaccaat ttggacaaat gtttatatat    5640
tttacataaa gctgtctgta tgcagaatct gaaaaaaaaa a    5681
```

5330

<210> 6667
<211> 1886
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (357)...(1885)
<223> similar to gi2708628 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6667
```
cgatctgctc caagtagggg ctccagcgcg ggtcggagtc tgggggttcg cgcccgccga     60
cccgcgccct gctccctctc agcacctggg cggacgaaat gaccattaag aagtagatgc    120
ccagatgcaa aagtgatgaa acagtccatt tgtcataaag taagatgcag ctgtggcatg    180
tcaaccagct tggaacaaaa ttgtatctgt ttttctcaga agagaattcc acaaggttaa    240
atcagcaaac aaagaaaaca tggtattttg aaatatgatt aaactcctga tgctgcagca    300
gaggctaaga atattaatgg ccagatctag tgcacacatg gtcttctgaa gaagccatgg    360
gtagctgttg tagctgtcca gataaagaca ctgtcccaga taaccatcgg aacaagttta    420
aggtcattaa tgtggatgat gatgggaatg agttaggttc tggcataatg gaacttacag    480
acacagaact gattttatac acccgcaaac gtgactcagt aaaatggcac tacctctgcc    540
tgcgacgcta tggctatgac tcgaatctct tttcttttga aagtggtcga aggtgtcaaa    600
ctggacaagg aatctttgcc tttaagtgtg cccgtgcaga agaattattt aacatgttgc    660
aagagattat gcaaaataat agtataaatg tggtggaaga gccagttgta gaaagaaata    720
atcatcagac agaattggaa gtccctagaa cacctcgaac acctacaact ccaggatttg    780
ctgctcagaa cttacctaat ggatatcccc gatatccctc atttggagat gcttcatccc    840
atccgtcaag cagacatcct tctgtgggaa gtgctcgcct gccttcagta ggggaagaat    900
ctacacatcc tttgcttgtg gctgaggaac aagtacatac ctatgtcaac actacaggtg    960
tgcaagaaga gcggaaaaac cgcacaagtg tgcatgttcc attggaggca agggtttcta   1020
acgctgaaag cagcacacca aaagaagaac caagtagtat tgaggacagg gatcctcaga   1080
ttcttcttga acctgaagga gtcaaatttg ttttagggcc aacccctgtt caaaagcagt   1140
taatggaaaa agagaaactg gagcaacttg gaagagatca agttagtgga agtggagcaa   1200
ataacacaga atgggacact ggctatgaca gtgatgaacg aagagatgca ccctctgtta   1260
acaaactggt gtatgaaaat ataaatgggc tatctatccc tagtgcctca ggggtcagga   1320
gaggtcgtct gacatccacc agtacctcag atacccagaa tatcaacaac tcagctcaga   1380
gaagaactgc attattaaac tatgaaaatc taccatcttt gcctcctgtt tgggaagccc   1440
gcaagctaag tagggatgaa gatgacaatt taggaccaaa gacccctatct ctaaatggct   1500
accataataa tctagatcca atgcataact atgtaaatac agagaatgta acagtgccag   1560
caagtgctca caaaatagaa tattcaaggc gtcgggactg tacaccaaca gtctttaact   1620
ttgatatcag acgcccaagt ttagaacaca ggcagcttaa ttacatacag gttgacttgg   1680
aaggtggcag tgactctgac aaccctcaga ctccaaaaac gcctacaact ccccttccac   1740
aaacccctac caggcgcaca gagctgtatg ccgtgataga catcgagaga actgctgcta   1800
tgtcaaattt gcagaaagca ctgccacgag atgatggtac atctagggaa aactagacac   1860
aatagtactt gatctgcccc tgtgag                                        1886
```


<210> 6668
<211> 2003
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2004)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1197)...(222)
<223> similar to gi4884104 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6668
```
tttttttttt ttagtccaca aagaaacaat tttattagcc caagaagtga agacccagtc    60
cctctgcttg ccccagctcc accccaaagc ccctcaaaag gataggtgtg ggtaagggag   120
aagcttggga tggaatgtcc cctatccctc agaagactgg agggaagacg acggtctgtg   180
caaataggtc accagaggtg tatgtgtggg gggttattag accaggataa caggggaaga   240
gggaggggac agtgggggat ctgttgaagg cccaggaaaa acaaggggag ctggggctaa   300
ggaaccaaag gaggtgggaa gagtggggct agaacccaaa agtggggtcc tttctgaggc   360
agggtggtcc cttggctccc cttcatcacc ctcctcttgc ccttgagttt cttcctcttg   420
gtcttcgtcc ccaggacccc gatgaacagg ctgcttgcaa atggggcagg tcttccgggt   480
ctgagtgagc caggggtcca cgcagcggct gtggtaggca tgagcacagg ggagtacccg   540
cagcttgtcc ccatcctcat attcatccag gcaaatggca cagacatcat actggtctcc   600
cttctgatag tcatgtgtag gaaatctgtt tcagttgctc ctttggtaag tcgattccgc   660
tggagccgtt ccggtgctg gatacaacga gctatcatta ctgctcccat ggccaaaacc   720
agcagtccca caatccctgt gaaagggatg aggtaatagc caaggggaa ggtattgtct   780
ggaaccagaa gcacccgagc ccccttctcg tagacaaaga gggcacgcag gtactcggag   840
cttctctccc caataaatac agacgggatc cagatctgct gctggatttc ctcactattc   900
cacaccatgt tcagaagttc attggaattc acattgtgta ctacagcggc accatatcca   960
gccttctggg catttaggac cttgaggtca aagttgcagt cgaatcttcg aagcagcgca  1020
ataaagactg acccattgac cggggctggg ggtggtgggg caatgggggct gcaggcattg  1080
tctgggtgag cctccacaag gaacccctgg aggccctcct ggctcaaggt agccccaaac  1140
agagctggaa ggtctgcaaa gtccatgctg gcattgtggt ccgaggtcgc tcgaatgagc  1200
ccccgggtcg gggccgctcc ccacagcaca gcggccacaa ccacaggaag cgggaaggct  1260
gcagggtgca tggcagcggg aggaaagagg ctgaggaggc cgcgcgtcct ggtagcaagg  1320
agcagaagcg gagttctgcg ccctcccctgc ccctccttta ggatcccagg ggtccaacca  1380
cccccaggtc ccacttccca gctacatggg ggcgccgggg aaggaacacc aactcaaaga  1440
atgagatatc caacccgttt agtggagctg ggtgggaggc actaaatgta tccttttctg  1500
gtacggggat aaaacgcgga aaggggacgg agcctaacac aggtgacaga aaaacttcgg  1560
gaagggtggc ggagctcaag gaggtgggac ttcctgctag gtgggccgtg ttcccagcct  1620
ctggaaaagg gcttccggta gagaaaatca ggccgctttc agcattggat gcttgagatg  1680
aaggacttcc ggtcctctcc tccctctggc ctccgccgct ccttcaaatc tcgcgagagt  1740
gctcaccacc tctcccgtcc cctcgcagct gaatagttgc tgtgtctatc gcgagagcgc  1800
tccaacttgg cgagccgtac tcactcgatc tcgcgagacc ttcaaacaaa ctcttctcta  1860
ttttcccgcg attctaattc ggtgaaaaca gcgcctttcc tctggtttcc aaatcagtta  1920
cgccccttct cgcacgcttc catcaagctc ctcctntcan tccgccttac tcccggccgc  1980
tctgttgctn cgcnctngcc cgc                                          2003
```

<210> 6669
<211> 1061
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1062)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (655)...(250)
<223> similar to gi460625 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6669
tttttttttt ttaggaaatg gcttaatttt tatttgaggt ggaaaccttt ggcttcaagc   60
ctgccattca acactgatga catctcagtc gtgagccgca cagtgggctg agtcctggtc   120
actgcacatc tgcagccagc tgtgcaatca agtctttggc atcttgcatg gtggagggta   180
tctctgagcc attcttagtc aggtaagggt tccaaaccaa gaacatcttc ctgtcatttc   240
ccacttcaga taatggccaa agcttcatgg atatctgtaa tgtgataggc tgcttcaaga   300
tcctgtttgt ttgcaaacac aaccagagga agtactgggt ttgctgcaat tagctgatga   360
aggtatttct tggctttcca ggtaatcggc tgtgaatcct gcttgaatcc aaccnagaaa   420
gatctagcca gcgaatcccg ttggataggt acatttccca gtaggaccga aaaggtttac   480
tgccaccaat ctccaggaac tccatctggc tgtcttcagt gttgatgcaa actgcatgga   540
aaccttgggt gggtgccaca ctgtgctgga ctctgtttga agctagagag tgcaggacac   600
tggttttttcc tgctccatcc aggcccagca ctaggatttg cttgttttttc tccagcggct   660
cgagcggggt ccttgtcaag gtgctgtcct tgttctcccc tttctcttct tgtcccttaa   720
attgttcctt ctctttgttt gtctccttcc cttgctttgt cctctttttcc tctttctctt   780
ttcccttttct cctctcctgc ttctcttgct tttcttgttt aattttctgc tccacctcct   840
ttcttttcac tttctcttcc ctacccttttt ctccgatttt ctccttctgc gtctccttttt   900
ccttctcttt cttcttcact ttcccccctct ccatccccag cgccgcggtt tccttccctc   960
ccgccgcgtg cccgcgtgct gagcggtggc tctgggcccc aggtgtggct cccgaggtgc   1020
acgcccgaca cgaaatcgtc gatnnngaat tcagaaccgg t   1061

<210> 6670
<211> 1480
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1481)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (164)...(955)
<223> similar to gi5817194 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

5333

```
        <400> 6670
ctcaagaggc tgaggcagga gaatcacttg aacccggaag gcagaggttg agttgagctg        60
agatcgtggc attgcactcc agcctaggca acgagagcga aactctgtct cagaaagtat       120
actctgggtc taataatctg cctccttcag gaatattcat tcctcttgtt gcccgctgga       180
tcccggcgct gttcatcggc ttcagccagt tctcggactc gttcctcctg gaccagccca       240
acttctggtg ccgcggggcc ggcaaaggca ccgagctggc aggggtcacc accacaggcc       300
ggggcgggga catgggcaac tggaccagcc tccccaccac ccccttcgcc actgcccccct       360
gggaggctgc gggcaaccgg agcaacagca gcggcgcgga cggaggcgac acaccacccc       420
tgccatcccc tccggacaag ggggacaacg cctccaactg tgactgccgc gcatgggact       480
acggcatccg cgccggcctc gtccagaacg tggtcagcaa gtgggatctt gtgtgtgata       540
atgcctggaa ggtccatatc gctaagttct ccttactggt tggattaatc tttggctacc       600
taataactgg atgcattgct gactgggtcg gccggcggcc tgtgctgctg ttttccatca       660
tcttcattct gatctttgga ctgactgtgg cactgtcagt gaatgtgaca atgttcagca       720
cactcaggtt ctttgaagga ttttgcctgg ctggaatcat tctcaccttg tatgctttac       780
gaatagagct gtgcccccct ggaaaacggt tcatgattac gatggtggcg agcttcgtgg       840
ccatggcggg ccagttcctc atgcctgggc tagccgccct gtgccgggat tggcaggtgc       900
tgcaggccct catcatctgc cccttcctgc tcatgctgct ctactggtcg tgagtacact       960
ctgcacagcg ccctgggctg gtgcgactgc acatgcttcc tgaaggcccg gccccgggca      1020
ggacacacaa tccccacact ttccactagt tgcagcttgt ggttctgtct gagaaggttt      1080
tcctctcttt ttaaaaaatt ttattgttta aactttctgt cttggaaaac tgttcaaata      1140
tacacaaaaa tagaagagtg gaatgagccc atcacccagc tccaaaaatc tgcaaatgca      1200
ctggccagtc tggctcaccc cttcttgcta cccaccccac ggggttattc tgacatgaat      1260
ttttatgaat ggattgcagg gaggtggagt cttgtgtta ggaggggggga tttggagata      1320
ttaaaggagt gatttacaaa agtcccccta tctcttctag gcgagggggtg ggcaaccttc      1380
agcctgtggg ccacatcagg cccactgtct gtttttgtaa ataaagtttt attggaacac      1440
nnnnnnnnnn nnnannnnnn nnnnnanñan aaaaaaaaaa                             1480
```

```
        <210> 6671
        <211> 1690
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (486)...(1508)
        <223> similar to gi1325951 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6671
tttctgatac tcagaagact cagagactgt cagtttaaaa aatgaaagta atatagaagg        60
ggcaaagtgg catttatcat tctatctctc caggctcctg tctctttaat cagctagcct       120
gatttgccca gtaaatgatt cctgagagtg tgtgtgcgtg tgtgtgtgtg tgtgtgcccg       180
cgcgcgtgtg ttgtagctct gtcaatcctt ggattagaac caatgattgc agcttgtagg       240
agggctgtcc agggccagat tgtacaatgt gtctcagtgc cagagtatga gtggagataa       300
ttacggagaa gtcatactct ctcacaccct cggctttctt gttgtgtcct tcagcaaaac       360
agtggattta aatctccttg cacaagcttg agagcaacac aatctatcag gaaagaaaga       420
aagaaaaaaa ccgaacctga caaaaaagaa gaaaagaag aagaaaaaaa atcatgaaaa       480
ccatccagcc aaaaatgcac aattctatct cttgggcaat cttcacgggg ctggctgctc       540
```

5334

```
tgtgtctctt ccaaggagtg cccgtgcgca gcggagatgc caccttcccc aaagctatgg      600
acaacgtgac ggtccggcag ggggagagcg ccaccctcag gtgcactatt gacaaccggg      660
tcacccgggt ggcctggcta aaccgcagca ccatcctcta tgctgggaat gacaagtggt      720
gcctggatcc tcgcgtggtc cttctgagca acacccaaac gcagtacagc atcgagatcc      780
agaacgtgga tgtgtatgac gagggcccct acacctgctc ggtgcagaca gacaaccacc      840
caaagacctc tagggtccac ctcattgtgc aagtatctcc caaaattgta gagatttctt      900
cagatatctc cattaatgaa gggaacaata ttagcctcac ctgcatagca actggtagac      960
cagagcctac ggttacttgg agacacatct ctcccaaagc ggttggcttt gtgagtgaag     1020
acgaatactt ggaaattcag ggcatcaccc gggagcagtc aggggactac gagtgcagtg     1080
cctccaatga cgtgggccgc gcccgtgggt acggagagta aaggtcaccg tgaactatcc     1140
accatacatt tcagaagcca agggtacagg tgtccccgtg ggacaaaagg ggacactgca     1200
gtgtgaagcc tcagcagtcc cctcagcaga attccagtgg tacaaggatg acaaaagact     1260
gattaaggaa agaaaggggt gaaagtggaa aacagacctt tcctctcaaa actcatcttc     1320
ttcaatgtct ctgaacatga ctatgggaac tacacttgcg tggcctccaa caagctgggc     1380
cacaccaatg ccagcatcat gctatttggt ccaggcgccg tcagcgaggt gagcaacggc     1440
acgtcgagga gggcaggctg cgtctggctg ctgcctcttc tggtcttgca cctgcttctc     1500
aaattttgat gtgagtgcca cttccccacc cgggaaaggc tgccgccacc accaccacca     1560
acacaacagc aatggcaaca ccgacagcaa ccaatcagat atatacaaat gaaattagaa     1620
gaaacacagc ctcatgggac agaaatttga gggaggggaa caaagaatac tttgggggga     1680
aaagagtttt                                                            1690
```

<210> 6672
<211> 4105
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (49)...(3703)
<223> similar to gi3327194 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6672
```
tttcgtaagg ctacagggta tccacgtggg ttctgagcgt gtttctacgt ccctggaagc       60
cggtcattta agctcattcc tcgccacggc ttagtcaaca tgggtcgctc gggaaagttg      120
ccctctggtg tctcagctaa gttgaagcgc tggaagaaag gccacagcag cgacagcaac      180
cccgccatct gccgccaccg tcaggccgcc cgcagccgct tcttcagccg gccgtcagga      240
aggagtgacc tgacagtcga tgctgtgaag ttacataatg agctgcagtc agggtccttg      300
cgcttgggca aaagcgaagc cccggagacg cccatggaag aagaggcgga gctggttctc      360
accgagaagt cctcgggtac cttcctgagt ggcctttccg actgcacaaa cgtcaccttc      420
agcaaagtac agcgcttctg ggagtccaac tcggctgccc acaaggagat ctgtgctgtt      480
ctggctgctg tcactgaggt gattcgctcc cagggaggga aggagacgga gactgagtac      540
ttcgctgctc tgatccggaa ggctgcccag catggagtat gctcagtcct caagggcagt      600
gaattcatgt ttgaaaaggc ccctgcccat catcctgctg ccatttccac tgccaagttc      660
tgcatccagg agattgagaa gtctggaggc tccaaggagg ccaccaccac gctgcacatg      720
ctgacgctgc tgaaggacct gctgccctgc ttcccggaag gcctggtgaa gagctgcagt      780
gagactctcc tcagggtcat gaccttgagc catgtgctgg tgacagcctg tgccatgcag      840
gcctttcaca gcctcttcca cgccaggcct ggcctgagca ccctgtcagc agagctcaac      900
gcccagatca tcacggccct gtacgactat gttccagtg agaatgattt acaacccctg       960
ctagcctggc ttaaggtcat ggagaaagcc cacatcaacc tggtgaggtt gcagtgggac     1020
```
```

```
ctggggctag gccacctccc tcgcttttttt ggaactgcgg tgacctgcct cctttcccca    1080
cactcgcaag tgctgactgc tgctacgcag agcctcaagg agatcctgaa ggaatgcgtg    1140
gctccccaca tggctgacat tggctccgtg acctcctcgg cctcaggccc tgcccaatct    1200
gttgccaaga tgttcagggc agtggaggag ggcctgacgt acaaattcca tgcggcctgg    1260
agctccgtgt tgcagctgct gtgtgtcttc ttcgaggcgt gtgggagaca ggcccaccct    1320
gtgatgagga agtgcctcca gtccctgtgt gacctgcgcc tctcccctca tttcccccac    1380
acggcggctc ttgaccaggc agtggggggct gcggtgacca gtatgggacc tgaggtggtg    1440
ctgcaggctg tgcctttgga aattgatggc tctgaggaga ctctggattt cccacggagc    1500
tggctgctgc ctgtcatccg agaccatgtt caggaaacgc gacttggttt tttcaccacc    1560
tacttcttgc ccctggctaa caccctgaag agcaaagcca tggacctggc tcaggcaggc    1620
agcacagtgg aatctaagat ctacgacaca ctccagtggc agatgtggac actcctgcct    1680
gggttctgca caaggcctac agatgtggcc atctccttca aagggctggc acggacgctg    1740
ggcatggcca tcagcgagcg tccagacctg agggtcaccg tgtgccaggc cctgcgcacc    1800
ctcatcacca agggctgcca ggcagaggct gaccgtgctg aagtgagtcg ctttgccaag    1860
aactttctgc cgatcctctt caacctgtat gggcagcccg tggcagccgg ggacactcca    1920
gcccctcgcc gggctgtgct ggaaaccatc agaacttacc tcaccatcac tgacactcag    1980
ttggtgaaca gtctcctgga aaaagccagt gagaaggtgc tcgaccctgc cagctctgac    2040
tttaccagat tgtctgtcct ggacctggtc gtggccttgg ctccgtgtgc tgacgaagct    2100
gccatcagta agctatactc caccatccgg ccctacctag agagcaaggc ccacggggtg    2160
cagaagaagg cctaccgagt gctggaggag gtgtgtgcca gtcctcaggg ccccgggggcc    2220
ctcttcgtgc agagccacct ggaggacctg aagaagacac tgctggactc gctgcggagc    2280
acctcctcac ccgccaagag gccccgtttg aagtgcctcc tacacatcgt gaggaagctc    2340
tcagctgaac acaaggagtt catcactgcc ctcatcccag aggtgatcct gtgcaccaag    2400
gaggtgtcgg tgggcgcacg gaagaacgct tttgcactgc tcgtggagat gggccatgct    2460
ttcctaaggt ttggctcgaa ccaggaagag gccctgcagt gctacctcgt cctgatctac    2520
cctggcctgg tgggcgcggt gaccatggtc agctgcagca tcctggccct gacccacctc    2580
cttttcgagt ttaaaggtct gatggggacc agtacagtgg agcagctgct ggagaatgtg    2640
tgcctgcttc tggcctcccg cacccgtgac gtggtcaagt ctgcactggg cttcatcaag    2700
gtggcagtga ctgtcatgga cgtggcgcac ctggccaaac atgtgcagct ggtgatggaa    2760
gccattggga agctttcaga tgacatgcgg cggcacttcc gcatgaagct tcggaacctg    2820
ttcacccaaa tttattccca aagtttggaa ttttaacctg ggggaaaaag gctgttggcc    2880
ccaaggagta ccacagagtc ctggtcaaca tccggaaagc tgaggcccgg gccaagaggc    2940
accgagccct gagccaggct gccgtggagg aggaagaaga ggaggaggaa gaggaggagc    3000
ccgcccaggg caaaggtgac agcattgagg agattttagc tgactcagag gacgaggagg    3060
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gccgggcatg gctgaaagag ggcggtgggg acgagcccct caacttcctg gatcccaagg    3180
tggcccaacg agtcctggcc acgcagccag gccaggccg gggcaggaag aaggaccaca    3240
gcttcaaggt gagcgccgat ggccggctga tcataaggga ggaggcagac ggcaacaaga    3300
tggaggaaga ggaaggtgcc aaaggcgaag atgaagagat ggctgaccca atggaagatg    3360
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agaaggctat gcctgggggct gaatacaagg ccaagaaagc aaaaggtgat gtgaagaaga    3540
aaggccggcc ggatccctat gcctacatcc ccctcaacag aagcaagctc aaccgcagga    3600
agaagatgaa gctgcaggga cagttcaaag gcctggtgaa ggctgcccag cgaggttccc    3660
aggtgggaca caaaaaccgc agaaaggatc gtcgaccctg agggcccagg gcccctgggc    3720
tgccctgtgg tccagtctga ggccctttca gccccaggc tgcccttgcc accagctcca    3780
ggtgctcaag attctggcag agcctggact caggatgact tggaactagg gcttggctct    3840
cagaagtcct ggattttgga aactccaaat ggaatcaccc ttcagagaca tccctggtgc    3900
ctggagatgg gaatgtggcc tcagtgcctc tgagtaggtg ccatgaggca cctttgcttt    3960
ctgcccagag tggccatgag caccagaaca gatgatctcc atttccgcca gctgcctgta    4020
gccacgttgc atcctgcctg tggtctgggt gagatttact gtgaccagat gtagaataaa    4080
tgtgtctcat cctgcaaaaa aaaaa                                            4105
```

<210> 6673
<211> 2650
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1122)...(468)
<223> similar to gi3114594 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6673
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gggtatgaag acagatctca aggtaaagtc agagagggct gtcatcagta tgctgggggag   120
tttagggaca ggaggcattg gtaggggatt agatgtagca gcagtcaggc tgggatcaag   180
atgcctgggg ggacatcttg atcttggcct ttcagggcaa gtgggaggct agaaaggtgg   240
cctaggaaaa gaaacaacaa tccttcaggt aaagggtaat agacttggga tgtgaaggcg   300
ttatgctgaa aggttctgtc acgaggggat cagaggacag tggggaaatt gggtgggtta   360
tctagcctgt actgtctgca ggtcctgaaa tttgatgctg tcatagtctt tgcagtgggt   420
cggttggaat gattctgggg gcagaagctc agagcccctt agtaggaatg gaggcggccc   480
ttctgctgcc actgctcagc cccctccact gcatgacgaa gggtggagga aattcccagc   540
aacatatggc ccaggccttg cagcagtgtg gaggtccaac gaaggagctc cctgagtact   600
ttctttgggc caaagtcctt gaaagtcaca actcatagag tagagcccgt agaatgtggc   660
tttgacattc aggctgccaa agaggtctcg agggttttgc ttgtacacgt caaaggtgaa   720
tcgggcgatg tccttgctgt gcttgggcct ctcccgtccc aggccatatg acagcactcc   780
actccttgta gggctccagc tctgaccaga ctgcaacacc atcaggcacg tgtcatcctc   840
cagcagctgg aagaagtcct cactgtccac tgcagttcca tcctcctcta gcaccagggt   900
tagcactcca ttcagcagta gggtctccaa tgctttggct agcagctcct ggcgggtggc   960
agctgtcagg cctttccgga tggtccgctt gtgatcacag acacggaaag gtcgctgggg   1020
tggtggagct gaggtccaga ccctccgtcc aaactccgag cttatattag atactgacct   1080
gagtaagtca ctggggttca gagctgagag gtactccatg gtggaccgga gagttccttc   1140
cctggaactt ctgggctggg tggttctctc ctgtgctggg gctttagtgg tgttttctgt   1200
tacaaacctg ggatctcagc ccaggacaag gtgggaatga gtcaagcctg gactctggcc   1260
cccctgcctg gccagtaaga agggcaaagt ccaagggggag ggatgaggga ggggccagat   1320
ggggtcctgg aggaagaatt gcctggcaaa agccattgga gcttgtatgt gtgtctttgg   1380
tgatgacatg tgttgtgagg gtagatggga accatgtaaa aggatgaaat gtgacttctg   1440
gtgtttttt atttctatgg agggaatttc tggggacggt ttctggctct caggctctga   1500
gaagctgcag tttatgagtg gctctgtgtg tgctgccacc tactggagaa gccataagct   1560
gcagctttag gaaaagggaa cccggggcag agtgtgggga agtgggatgg cagcatggca   1620
gggctttgga aaatgagagg tgagagtgtg tccaggaagg gtgtaaggag aggatggatc   1680
ctgatacatg gattcaggat cattagggtc ctgtctggga cactggcctt cctgcttacc   1740
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cagagctgcc tgctgcagtc acacttaggt catcttctct cactttttctc cttttgccga   1860
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aaacacagag taacttgatt gccctgtgac cctggccagt tgcatttccc ctgcaggctt   2160
gagcccaagc cagagccttg aaaaggtatt caggttgttg cccaaaacac tgaaaaaaac   2220
tggccctggc cctgaaccaa ataccttgaa ccctcgtaaa ctccataccc tgaccccctt   2280
gttttggata tacccaggta gaacaactct ctctcactgt ctgttgtgag gatacgctgt   2340
agcccacgtc attaagtaca ttctcctaat aaatgctttg gactgatcac cctgccagtc   2400
ttttgtcttg ggcaatctat acttttctc agaggttccc aaggcctact gaagggactt   2460
aacatactct taatggcttt cctctctgct tgttttacct tatgccctca cttcctgagt   2520

```
taacctccca aatacagggt tcacctgtac ccaagccctt agctcaagaa tacaggatca    2580
cctgtaccca agcccttagg ctcaagctct gctttggaag aacccaaact aagacagtgc    2640
tcccggaatt                                                          2650
```

<210> 6674
<211> 718
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (547)...(424)
<223> similar to gi488524 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
          <400> 6674
cgatggtgaa ctgctaacta ccgcatcccg atggtgaact gccgaactct accgcatccc      60
tatggtgaac tgctaactct gccgcatccc gatggtgaac tgcctaactc tacctcgtcc     120
cgatggtgaa ctgcctaact ctaccacatc ccgatggtga actgctaact ctgccacatc     180
ccgatggtga actgctaact ctgccgcatc ccgatgggga actgccaaac tttacctcgt     240
cccgatggtg aactgcctaa acctcttccc gatggtgaac tgcctaactc taccgcatcc     300
cgatggtgaa ctgcctaact ctaccacatc ccgatggtga actgctaact cagccgcatc     360
ccgatggtga actgccaaac tttacctcgt cccgatagtg aactgcctaa ctctaccgca     420
tcctgatgaa ctgcttaatg gcgttgtccc tgggtacaca ttgggtgcag ctcctgcagt     480
catgggctgc tcacagccgt ggcccttttg gcacaaccat tgttccttct tgtcttggaa     540
acgaggaccc gagggagacc atccgtccat cctaaaattg ggacgtttgg ttttctgttg     600
ttgagttgga gttatttgta gagtctagag atcagtctct aggagacgtg tgatctgcag     660
acatttccct ccatctctgg gttgcatttt tctgtccatt gatggtgtcc ttcgatgg      718
```

<210> 6675
<211> 6531
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4481)...(538)
<223> similar to gi3413852 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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          <400> 6675
tcacagctgt acaaactttt ttaaaaacaa ggttttgtta caaaaaacag ttctgaacag      60
ttaacattgt aaaaaggtat aaaaatacag ggactctgag cactctgagg aatttcccga     120
```

```
cacatgctct taactaaggc ggagagatct ctgggaagcc gaagtcaggg cctgggcctc    180
tgacccctgc cctgggcctg gtctccctcc tctttcccac gatcccatgc tccagggctg    240
accagagaca agggctctcc ccaatcctgg ctacggctca gcctctcaag gaggaacttt    300
aatgatctac agtggctcat cctagaagag gggggctgga ctgcaggtgt tgctgggaag    360
cctctccagg cctggagctg gagtacccgt cctcagcact gccagcagag cgcctcctca    420
tcccacccca gcttgaggcc cccaagggac cgggctctgg ggggggggc tgtccaaaag    480
aagggtcctc ccctgtccca agcacagggg tgttctccag atgccagcag gagctcattt    540
ctctgggggg ccggagggtg gggagaaggg tgctgagctc cttcgaagct cctgctgcag    600
ctggcccttc agtgtggaca ccctctggcg gtgggcccgc tcccgagcct ccagggtgcg    660
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ccgttcctgg agtacttggc ggtcatgttc acaggcggtc agagccttct gcagatgcag   1320
gttcttgtcc cgggtgctgt tgaggctggc actgctctgg ccagggcct ctgtcaggcc    1380
ccgcaccttg tcccgcaggg cccctcgct ttcctccacc ttggccaggg ccccattcag    1440
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cagggaatcc acccgatcct ggagggcctg ggcttgggcc tcgcggtcac tgaggcccag   1560
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ccgaagttcg tcccgttctc tctgggcact ccgcagctct tgcaggaatt cccggagggc   2040
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tggtggctgg gacccagggc tgcattctaa ggtgctgggg ctgttgagcc cttccccgct   2160
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cgcgcgaccg aggccgaggc cccggcgcag agccgagcgc aggccaccca gctgggcctc   2280
cgccgcgcgc cgctgcacct ccacgcgggc cagctcggcc tccaggcctt gtgcccggcc   2340
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ctgccggagg cccagggtct cccgcctgct ctccttctct gcccgctcgc ccagcgccag   2640
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```

5339

```
cagctcccgc catgctgcct cctttttcacg ctggagtcgc tgtaagtcct cctcgtgagc   3600
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catcagctcc ttgtctagac tggctttctc ctgtgtagct attatttgct gccgcaggcc   3720
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ctcctgctcc cgcccgctca gctgccggga gagctgcgct agctgctcct gcagctggct   4080
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gctcactgca acttctgcct cttgggttca agcgattctc ctgcctcagc ctcccaagta   4920
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gggtttcacc gtgttggcca ggctggtctt gaactcctta cctaaggtga tccacctgcc   5040
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atatgtttga catccgtccc atttgggagg ccttctcatc agtcatttta tgcctttaat   5160
gccattctag gtaggcagga aaggggtcag ggccagtggg cccatgtagc agatagggaa   5220
actgaggccc agagaggaca agccacttct tcaagaggac ccaaactgga tgccaggcag   5280
gccctctgcc tctgggattt tgcccatatg gctcaactgg cctaagtctg ctggcccaag   5340
gaaaaatttc aacccaaccc tgccctttcc cccattcctc tcgtgcaggg gagttggcgg   5400
gcctgcggca gcaaataata gctacgcagg agaaagccag tctagacaag gagctgatgg   5460
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gtggtgggga ggttgtggtc cttattagac attcagatac ccaggtccca aatctggtcc   5760
agccctggta atcctgatgc agagggtcca caaccacatt tgggaaatgc tgacctaatg   5820
tacagcagga aagcactttc atttgctaag aagtttccat atgaagggcc acgcagacct   5880
gagcatgtag aaaggcaagg ggccagggaa gttactagaa cactgactct ggggttatat   5940
tgcctgggtt tgaatctaat cttggtcgct tactggtgat gctacccaag gtgtctgtgc   6000
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ggaggctgag gtgggcggat cacgaggtca ggagatcgag accatcctgg ctaacacagt   6480
gaaaccctat ctctcctaaa atcacaaaaa attagctggg catggtggca c            6531



        <210> 6676
        <211> 827




                                    5340
```

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6676
tttttttttt ttctggctga caaagatatt tattgagggt ttactgggta cagcgagaag   60
ggctgaatgg cttgggatgc agagagagac ccctcccctg ggatcctgca gctccaggcc   120
cctgtgggtg gggtggggggc tggaacctat gaacattctg caggggccac tgacttctcc   180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg   240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg   300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt   360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac   420
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aggggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa   540
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cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag   660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt   720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac   780
cgcnctgact aatgtcatca gtgnntcaat tnncccccct cccctcg   827

<210> 6677
<211> 2346
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2347)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (131)...(2121)
<223> similar to gi4079673 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6677 .

```
gcggccgcct gaggcgggcg gtcggtatag agcgggcggc aggaggcaag cagcgaaacc      60
ttcccggccg ccgctcccgt cccgacggcg gcttccccaa ggcggcagga ctcggcgcgc     120
catggacagg ccggcggcgg cggcggcggc gggctgcgag ggcggcgggg gcccgaaccc     180
ggggccggcg ggcggcagga ggcctcctcg ggccgcgggg ggcgccaccg ccggctcccg     240
gcagcccagc gtggagaccc tggacagtcc cacaggatca catgttgaat ggtgtaaaca     300
gcttatagct gctacaattt ctagtcagat ttcaggttca gtgacatcag aaaatgtgtc     360
cagagattac aaggctctaa gggatggaaa taagctggca cagatggaag aggctccact     420
tttcccagga gaatcaatta aagccattgt gaaagatgtc atgtatatct gcccatttat     480
gggagcagtg agtggaaccc tgacagtgac ggactttaag ctgtacttca aaaatgtcga     540
gagggacccg cattttatcc ttgatgttcc ccttggagtg atcagcagag tggagaagat     600
tggagcacag agccatggag acaattcctg tggtatagag atagtgtgca aggatatgag     660
gaacttgcgg cttgcttata aaacaggaag aacagagtaa actagggata tttgaaaacc     720
tcaacaaaca tgcatttcct ctttctaacg gacaggcact atttgcattc agctataaag     780
aaaaatttcc aattaatggc tggaaagttt atgatccagt atctgaatat aagagacagg     840
gcttgccaaa tgagagttgg aaaatatcca aaataaacag taattatgag ttctgtgaca     900
cctaccctgc catcattgtt gtgccaacta gtgtaaaaga tgatgacctt tcaaaagtgg     960
cagtttttttt agcaaaaggc agagtccctg tgttgtcatg gattcatccg gaaagtcaag    1020
caacgattac ccgttgcagc cagccacttg tgggtcccaa tgataagcgc tgcaaagagg    1080
atgaaaaata cttgcaaaca ataatggatg ctaacgcaca gtcacacaag cttatcatct    1140
ttgatgctcg acaaaacagt gtcgctgata ccaacaagac aaagggtgga ggatatgaaa    1200
gtgaaagtgc ttacccaaat gcagaacttg tgttcttgga gatccacaac attcatgtca    1260
tgcgagagtc actacgcaaa ttaaaagaga ttgtgtaccc ttcgatcgat gaggcgcggt    1320
ggctctccaa tgtggatggg acgcattggc tggaatatat aaggatgctg cttgctgggg    1380
cagtaagaat tgctgataaa atagaatctg ggaaaacatc tgtggtggtg cattgcagcg    1440
acggttggga ccgaacagcc cagctcacat ctctggctat gctaatgttg gacagttact    1500
acaggaccat taaaggattt gaaactctcg tagaaaagga gtggataagc tttggacaca    1560
ggtttgcact gcgagtgggc catggtaatg acaaccatgc ggatgctgac cgatctccca    1620
tatttctgca gtttgttgat tgtgtttggc aaatgacaag gcagtttcct tcagcattcg    1680
agtttaatga gctattcttg attacaattt tggatcacct ttatagctgt cttttttggga    1740
ccttttgtgt caactgtgaa cagcagcgat tcaaagagga tgtatataca aagacgatat    1800
ctttatggtc gtatatcaat agccagctag acgagttttc taatcccttc tttgtgaatt    1860
atgaaaacca cgtgttatat cctgttgcta gtctgagtca tttggaattg tgggtaaatt    1920
attatgtacg atggaatcca cggatgagac ctcagatgcc cattcaccag aatctcaagg    1980
agctgctggc cgtcagggcg gagctgcaga agcgtgtgga gggtctacag cgggaggtgg    2040
ccacgcgcgc cgtctcatcc tcatctgagc ggggctcctc gccctcccac tccgccacct    2100
ccgtccacac ctcggtctga tgggcgaggt cagcctgctg ctccactgtc tcccggtggc    2160
tcaagaaagg gacctggcga tcactgttat ggctgtagct tgtgatcttg tcttttagga    2220
ttaggcccag ggaccatttg tgtggctagg tgacagctcc cactgttggc aaccgttacc    2280
ctcctgtcag cggtttcaca ggggagccgt ctgtnacggc caccctgtga agcaacttct    2340
ggcatt                                                               2346
```

<210> 6678
<211> 1312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (60)...(1083)
<223> similar to gi2154755 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 6678
cctcagaagt aagcaaggtt tcctgccggg agaaaaggat ttgaagcatt ccagccaaaa      60
tgacggacag aagccccttc gaaaccgaca tgctcaccct gacccgctac gttatggaaa     120
aggggcgtca ggccaaaggg actggggagc tcacccagct gctgaactca atgctgacgg     180
ccatcaaagc catctcctcg gctgtgcgca aggccggtct ggcccacctg tatggaatcg     240
caggaagcgt taacgtgacg ggagatgagg tgaagaaact ggatgtgcta tccaattccc     300
tggtgatcaa catgctccaa tcctcctata gtacctgcgt cctggtctca gaagagaata     360
aggacgccat catcaccgcc aaggagaagc gggggaaata cgtggtctgc ttttgaccca     420
ctggatggat cttccaatat tgacttgcct ggccttccat cggaaccatc ttttgccatc     480
tatagaaaag acctcagagg atgagccttc tgaaaaggat gccctgcagt gtggccgcaa     540
tattgtggcc gcaggttatg cgctgtacgg tagtgcaacc ctggtggctc tctccacagg     600
gcaaggcgtg gacctcttca tgcttgaccc ggctcttggt gaatttgtcc tggtggaaaa     660
agatgtcaag attaagaaga aaggaaagat ttacagcctg aatgagggct atgccaagta     720
ttttgatgcg gccaccactg aatatgtgca gaaaaagaaa ttccctgagg atggcagtgc     780
tccctatggg gccaggtatg tgggctccat ggtggctgac gtgcaccgca ccctggtcta     840
tggaggaatc ttcctgtacc cagccaacca gaagagccct aagggcaagc tccggctcct     900
gtatgaatgc aatcccgtgg cctacatcat tgagcaggca ggaggcttgg cgaccacggg     960
gacccagcct gtactggacg tgaagcccga ggcaattcac cagcgagtcc ccctcattct    1020
ggggtcacca gaggatgtgc aggaatatct cacctgtgtg cagaaaaatc aggcaggcag    1080
ctagcgagtt tgaccccaca tgccctcttc tgtttgtctt gcaccttgtc taaggaccct    1140
aaatgaacga taaacagaga tggtagctat gagtatacaa aaggtaaatc cacttaatca    1200
catacagaag agcaacaaca aactgcttac gacaggtttg gaagccacag gcgattctat    1260
ggtcaatgtg aaggactaga aataaaaacc cacatgtgga aaaaaaaaa aa            1312
```



```
<210> 6679
<211> 1972
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1973)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (367)...(1612)
<223> similar to gi3005717 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
```



```
<400> 6679
cggggacccc gagctagagc cgcagcggga cctgcccggc ccccggcgcc cggcggccgc      60
cgccgcgatg tttcccccgcg agaagacgtg tgaatcatct cgttcgcggg ccttgcggct     120
tgggtgggcg tctacttacg tcggcgtggc cctcctgcct ccgcgagcac gcgcccttc      180
ctggtggcca acgccacgca catctacggc gcctcggccg ggggcnttca cggccacgga     240
cgctggtcac cggggtctag cctgggtgag gctggtgcca aagttcattg aggtatctta     300
aagaggcccg gaaagcggtt cctggtgtcc cctgcacccc tccttcaacc tggtaaaaga     360
tcatgccgca gtttcctgct gaaggtcctg cctgctgata gccatgagca tgccagtggg     420
```

```
cgcctgggca tctccctgac ccgcgtgtca gacggcgaga atgtcattat atcccacttc      480
aactccaagg acgagctcat ccaggccaat gtctgcagcg gtttcatccc cgtgtactgt      540
gggctcatcc ctccctcct ccagggggtg cgctacgtgg atggtggcat ttcagacaac      600
ctgccactct atgagcttaa gaacaccatc acagtgtccc ccttctcggg cgagagtgac      660
atctgtccgc aggacagctc caccaacatc cacgagctgc gggtcaccaa caccagcatc      720
cagttcaacc tgcgcaacct ctaccgcctc tccaaggccc tcttcccgcc ggagcccctg      780
gtgctgcgag agatgtgcaa gcagggatac cgggatggcc tgcgctttct gcagcggaac      840
ggcctcctga accggcccaa ccccttgctg gcgttgcccc ccgcccgccc ccacggccca      900
gaggacaagg accaggcagt ggagagcgcc caagcggagg attactcgca gctgcccgga      960
gaagatcaca tcctggagca cctgcccgcc cggctcaatg aggccctgct ggaggcctgc     1020
gtggagccca cggatcctgc tgaccaccct ctccaacatg ctgcctgtgc gtctggccac     1080
ggccatggat ggtgccctac acgctgccgc tggagagcgc tctgtccttc accatccgct     1140
tgctgggagt gggctgcccg acgttcccga gggacatccg gtgggatgaa aggagcagac     1200
ggggcagcat ctgccaggta cctgggtgat gcgcgccaag aggaagctgg gcagggcacc     1260
tgccctccag gctgccggag caggtggagc tgcgccgcgt ccagtcgctg ccgtccgtgc     1320
cgctgtcctg cgccgcctac agagaggcac tgcccggctg gatgcgcaac aacctctcgc     1380
tgggggacgc gctggccaag tgggaggagt gccagcgcca gctgctgctc ggcctcttct     1440
gcaccaacgt ggccttcccg cccgaagctc tgcgcatgcg cgcacccgcc gacccggctc     1500
ccgcccccgc ggacccagca tccccgcagc accagctggc cgggcctgcc cccttgctga     1560
gcacccctgc tcccgaggcc cggcccgtga tcggggccct ggggctgtga daccccgacc     1620
ctctcgagga accctgcctg agacgcctcc attaccactg cgcagtgaga tgaggggact     1680
cacagttgcc aagaggggtc tttgccgtgg gccccctcgc cagccactca ccagctgcac     1740
tgagagggga ggtttccaca cccctcccct gggccgctga ggccccgcgc acctgtgcct     1800
taatcttccc tcccctgtgc tgcccgagca cctcccccgc ccctttactc ctgggaactt     1860
tgcagctgcc cttccctccc cgtttttcat ggcctgctga aatatgtgtg tgaagaatta     1920
tttattttcg ccaaagcaca tgtaataaat gctgcagccc agaaaaaaaa aa              1972
```


<210> 6680
<211> 1282
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (141)...(1178)
<223> similar to gi6013189 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6680
```
cggcaccggg ctcctcctgc tgctgggaca gtgctctagt acaacagaca gacctactga       60
cacaggggag gtgagaaggg aggtgaccac caggactggc tctgtgagta ctacacagtg      120
gggagggggt gggggccacc atgtcatcat atcagaagga actggagaaa tacagagaca      180
tagatgaaga tgagatccta aggaccttga gccccgagga gctagagcag ctggactgcg      240
aactacagga gatggatcct gagaacatgc tcctgccagc tggactaaga caacgtgacc      300
agacaaagaa gagcccaacg gggccactgg accgagaggc ccttttgcag tacttggagc      360
aacaggcact agaagtcaaa gagcgtgatg acttggtgcc cttcacaggc gagaagaagg      420
ggaaacccta tattcagccc aagagggaaa tcccagcaga ggagcagatc accctggagc      480
ctgagctgga ggaggcactg gcacatgcca cagatgctga aatgtgtgac attgcagcaa      540
ttctggacat gtacacactg atgagtaaca agcaatacta tgatgccctc tgcagtggag      600
aaatctgcaa cactgaaggc attagcagtg tggtacagcc tgacaagtat aagccagtgc      660
```


5344

```
cggatgaacc cccaaatccc acaaacattt gaggagatac taaagagggt ccgaagcaat      720
gacaaggagc tggaggaggt gaacttgaat aatatacagg acatcccaat acccatgcta      780
agtgagctgt gtgaggcaat gaaggcaaat acctatgtgc ggagcttcag tctggtagcc      840
acgaggagtg gtgaccccat tgccaatgca gtggctgaca tgttgcgtga gaatcgtagc      900
ctccagagcc taaacatcga atccaacttc attagcagca caggactcat ggctgtgctg      960
aaggcagttc gggaaaatgc cacactcact gagctccgtg tagacaatca gcgccagtgg     1020
cctggtgatg cagtggagat ggagatggcc accgtgctag agcagtgtcc ctctattgtc     1080
cgctttggct accactttac acagcagggg ccacgagctc gggcagccca ggccatgacc     1140
cgaaacaatg aactacgtcg ccagcaaaag aagagataac actgcatttc cctttaccaa     1200
ctagcgctgg gagcactgga cacttaaatc ctcatctgtc ctcctttcct gtaaataaaa     1260
gcccttctat ccaaaaaaaa aa                                              1282
```

<210> 6681
<211> 2444
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1021)...(737)
<223> similar to gi487836 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6681
```
ggtgtgtgtg cactgtctgg tcaagagcag tgtccatttg cttttctgtg gcaacagtgc       60
acgtggggtg ggtgggggggt gcgtacggtg gggcttgtag gttaagatgt ctctgcggtg      120
gtgttgtggg gctggaggcc gagccaggca cggcagctgg ccctctccag gcgcatggag      180
gaattctccc tttgccgttc caaggatgcc gccgcctcct accggggctc ccggggggggt      240
cagccaacac tacaaagggc agcgagtcct caggcgcccc gggagccacc agtctgctct      300
cgggctctac tcagactagc gccaacagtc tccgcggaca gactcgcatc agccgccctg      360
gggctcggcc tcctcccata ggctcctctt cctctctttc attcaagtct tcaaactttg      420
aaaaaaatat gagcttttgc caaataagac gggatagttt atggagtttt ctgaggcgca      480
ttgaactctg gtcagcccct cgagcgtggg ctcggccatc agcaggcccg gtgggttggc      540
cgggctggcc ctcccaggct gcctttctct ctggtcgcgg cctggcccgc cccggcctcc      600
accgccgcaa ttcatgctgg tgccgcgccc gcagccccac tcctggtatg cctgagattc      660
tccaggggcc aagccggtcc tccttcccgg cccactcttc cagggccagg acgctcccgc      720
ggagccagcc catcgtggct gggggtccca ggggctggag gcctgcctgg ttagcctctg      780
tttcccagac attgactcga ggcgcctcca gtcctctcaa ccccctgact ttcaagtcct      840
ttcaagtcct tgtgccctga ccaagttatg aggaaaagag ggctgagggc ctggaggtgg      900
gctcgcaccc cctcgaaccc acctagatgt ctcctcctcc ccagcctatg agttcagact      960
tggggggctc catctgtccc tccctgaggt ccctcatctt gtccctgctc tgattctgtc     1020
agcagatcct gaacactcct tggtggggac ccatgcctcc aaggctgccc ccaatgccag     1080
ctgtcctggg gaaactcccc agaactctcg gggaaaggcc cgagaacctt cggaggaagc     1140
ctccgggact cctcgccacc tgctctgttt ctctcccggc cccactgcct tcaggtatca     1200
ggaagagggc aggcccctgt gccccctctc cccttcccag ggcggccaac aatactccac     1260
catggggcgc ttcctttctt ctctggaaac taagacattg gactgaagga actggcctga     1320
ggggggctga ccggggggccc gtgctgctgg gagctctacg cacaagaggc cgccggggtc     1380
acggacagga acctcagccc agggtgctgg cctttctcct tcgcaggagt cccccaaaat     1440
ccacacagcg actcgagcag ccttccactc agccagagga gggtcgggct ccccccgcctg     1500
ctctcggtgg tggcgtctgg cccttcctgc cgtttccaag gcctccggaa gcaccaaccc     1560
```

```
agttctcagt tacctcctct ggccggaagg cctcacgttg tcctccagag ctgctctggg    1620
cccagggctg gctccgtgac cacctgatgg acgtgctggg cagcatgggc tcccaaggca    1680
gcatccccag ctgctctccc accccaccc agctgcccgg cggctgggcc cacgagggct     1740
ctggggacac ttccatagga aaggggcctg gcactttgtg attgccacgt gtttcctgtt    1800
aagccgcctg cccccagtgc aaatctctgt gttttgctct ctcctgaaca aaaatgtaaa    1860
ccgacgccgg aaagcaaatg gtatcgaata cctttcttgc ccataagggt ttttacaaag    1920
aacgtgtctc actaggaact aggacactca tcggcccgag accacctgat ggacgtgctg    1980
ggcagcatgg gctcccaagg cagcatcccc agctgctctc ccaccccacc ccagctgccc    2040
ggcggctggg cccacgaggg ctctggggac acttccatag gaaaggggcc tggcactttg    2100
tgattgccac gtgtttcctg ttaagccgcc tgcccccagt gcaaatctct gtgttttgct    2160
ctctcctgaa caaaaatgta aaccgacgcc ggaaagcaaa tggtatcgaa tacctttctt    2220
gcccataagg gttttacaa agaacgtgtc tcactaggaa ctaggacact catcggcccg    2280
agaccaactc ctggataaaa ggaataagga gaatcgtgtt tgtaacgagt tacaggattg    2340
tttctttcct ggattttaaa cttttgttaa attgtgaaat tatggaggag ttttatagaa    2400
aaaaaaagtg aaataaagtc agatgggaaa gcagaaaaaa aaaa                      2444
```

<210> 6682
<211> 1541
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1542)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1236)...(354)
<223> similar to gi4589283 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6682
```
gttttttttt aagattccac ttctcagttt atttctgggg actaaatttg ggtcagagct      60
tgcagagaag ggattgggcc ctgagcttga ggatgaaagt gccccaggga gattgagacg     120
caaccccgc cctggacagt tttggaaatt gttcccaggg ttcaactaga gagacacggt      180
cagcccaatg tgggggaagc agaccctgag tccaggagac atggggtcag gggctggaga     240
gatgaacatt ctcaacatct ctgggaagga atgagggtcc tgaaaggagt gtcagggctg     300
tccctgcaag caggtgggga tgccggtgtg ctgagtcctg gggatgactc aggaattggc     360
ctggatggtt tcctggatcc actttggtga acttgcagaa gttcgtgtag acaccccggt     420
cttgtttggg cccgggcaca agggtaatct ccccaggaca cgagtccctg cagggagcca     480
ttgcagacca caggcccccc agaatcaccc tggcaagagt ctctacctgc tttgtcaccg     540
gcgcagaaca tggtgtcatc tatctgtctc gggtaagcat cctcgcacct tttctgactt     600
agcacgctga tattcaagca ctggaggacc ttagggaagt gcacttgggg gctcttggtt     660
gtcccccagc cagacaccaa gcactttgtc ccagcagagg acaatgaga ggagacgttg      720
atgggtctga catctttagt gggacgaatt cttctgttca gtttgatgag catgaggtcg     780
ttagagtggc cagggtggga gtagccaggg tggggatgg atttgacccc ctggaacatc      840
tgctgcccag attcataaac tggtgacagg gagtagtggc cgagacggac tctgaaaact     900
ttcttcctgc agtgggcggc cgtgagcagc cactgtggat gcaccaacac cgccccgcag     960
tagagctggt tgggccttag caacagcgcg gcctgccacg gctgggtgtg catatcgcag    1020
```

```
tcggatccat tgatgatgcg gctgctgctg tcatccgacc gggcgtcttc cccggcccca   1080
gctcccaggt cctggttgct cccagagggc acggtgttag aggggtggtc acaggaaaca   1140
tcattgttgg cgagaacatg ctctgtgacc cccagaagca aggctgtgat cagagcacag   1200
agcacccaca tccagggggg tcttgctgta gccatggccg ctgcacctgg atggggaatg   1260
tcagagggtt gggaggccca ggcgatccgg ggagccctta acccacttcc cctccctccc   1320
ctaccttatt tccccaggta gagaggaacc acaaggacgg gccaccatcg gcactgcgct   1380
gagacccagg cactatagaa ttcagaagat aggagtctag cagcctccag acagggcaag   1440
gaggggagna gaaagatgtg ggtgcaggac gcacagacac ctctccttcc ctgcctgntg   1500
aggaattcct ccgctctggg ctagtggtca tcgatttcca t                       1541
```

<210> 6683
<211> 1437
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1061)...(292)
<223> similar to gi3581866 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6683
```
gccccataaa aaaaattttt ccttgccagc ccgggtcgta aaatttgttc cttttaaacg     60
gccccccctt ttttttttt ttctggctgc aaatcgtttt tatgggaacc tgcagggtga    120
cccggcacct tgctaactgg gcttagagtc taagggcttg ggggctgcat ctgatacagg    180
ttggagtttg gggtggggaga gtcctaggaa gggggcccca agtagaaatg agagaaatca    240
ggaagggata tcgggggcgt ccacggggggt gctccgactg gccttgcacc cgtaccccag    300
ctctgcaccc cccgtcacga gcagttcaat gcccgtgcag aagttggctt cggaggccag    360
gaacactgcc gcagccccga cctcagcggg ctggcccatg cggcccagtg gctggatctg    420
aaccccactt ctacctgggc cagcatgccc tctcggattg tggccctagg gtctggcatt    480
aaggctgcca gctcctccca cagcggggtc cagatgtttc ctggggagat acagttgact    540
cggacaccat atggactttc atccagggcc aaagctttgg tcatggctgt tactgccccc    600
ttggtggcca catagggaac tgcctgggcc tggccgattg cccccaccag gctggagatg    660
ttgatgacat tcccttgact cttccgcagg taggggaggg cgagcttggt caaggtgtac    720
gtccccagta ggttcagctc cagcagctgg cggaatccct gggcagaggt ctcctcaggc    780
ctctgtgggg gtgggtggtg gccagcgttg ttgacaacac aatccaggcg gccaaatcgg    840
cggatggtct cagaaaccag ggtcttcaca tcatcttcct gagtcacatc acagaggata    900
aagacagctc cagggagctc ctgctccagg gcccggcccc cagactcatc cttgtcgcag    960
ataaccactc gggccccgct gttcacgaag gcgcgcacga tcccagctcc gatgccgcgc   1020
ccgccccccgg tcacgaccac caccttcccg gcatagcgcg ttcccgtagc catcccgtgt   1080
acgtcggtct ctctctctct ctactctggg cctctttcac ctccaaagcc ccgtgaggcc   1140
gtcgcatcaa atcctcaata gaggctggat cctggaagtc cggcctcggg gggcgttgcc   1200
aggaaggcta gagacctgga agtttgtccc cagcccctcc tccctcagac actcctctct   1260
tcccacagac ccaggaatcc aggagccccca gtccctcctc ccacagaccc aggaatccag   1320
aagcctcagt ccctcctccc tcagactcgg gagtccaggc ccccagcccc tcctccttca   1380
gattcgggag tccagcaacc cagcccatac atccctcaga cccgggagtc cagcctc       1437
```

```
      <210> 6684
      <211> 1013
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (987)...(854)
      <223> similar to gi4336401 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




      <400> 6684
gctcgacttt tttttttttt tttttttttt ttttgcagga acactatatt tattaggtca      60
ataattcatt tttagcaata caagtacaga atatatcaca atgctggtta caaacatact     120
tagtatggtt taatagttac aaataacggt gggcactaca agttggtgag aatgatgaaa     180
ggtcatcctg acacaatgaa gaaccgtctt caaaaatcta tttaatgacc ttagatattt     240
ctatagaaat tattgtggca ctattagtgg ggattttcac gtaaagattg ttagtgtttt     300
gtttttaact gttccattaa gaactttta ttttgagcct attaaactaa aatcccctgt      360
tgcttaataa agtataaaaa tagtactgac ctggtaatat ttaataaaac gtagcattca     420
ttcacatcat aaaagtagaa ctgaaaagtt ttagttacca tggcaaaata tcttcccata     480
aaaggaatat acagaaatga gtaatgttac acaaacggta cctgcaatgg ttatttagtg     540
atccaacact taactgtgca ccacaaacca agttttctag atatctatat ataggatata     600
tttttaatct taaattttac tcttgaaaaa catgtgcact tcaacaaact cactaaggcc     660
actcatgcta tagataccta ggattgcaat taaagaatag tattatgcaa taaatcctaa     720
agcacactcc ttctgattat caacagggta aaaccagttt tctgcctaaa acattcctga     780
gatttatgga caaaagaagt actgttgaag ctggagatta atccaaatgt catattaaca     840
acaaaaaatt tcctagccag gcgtggtggc aggagcctgt aatcccagct actcggaagg     900
ctgaggcagg agaatcgctg gaacccggga ggcggaggtt gcaattaacc aaaacggtgc     960
ccttgccctc ccagcctggg caacaaaaaa gaaactccgt tttaaaaaaa aaa          1013




      <210> 6685
      <211> 1478
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (576)...(200)
      <223> similar to gi1493827 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters




      <400> 6685
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cctccccgct agatgtcacc ggccctccat gacatccagc acattcaaaa gcattgcggc     120
gacgaccatg aaaaagggcc tttgctgggc ggagccagct ccctgagggc gggcgtcagg     180
ggtcatttgc tccttcgtcc ttctgactct ccgtcttctt gggcagcagc acggcctgga     240
```

```
tgttgggcag gacgcccgcc ctgagcgatg gtcactttgc ccagcagctt gtttaactcc      300
tcgtcgttgc ggatggcgag ctgcaggtgg cggggaatta tcctggtctt cttgttgtca      360
cgcgcggcgt tgccagccag ctccaggatc tccgccgtaa ggtactccaa caccgccgcc      420
aggtacaccg gcgccccggc gcccactcgc tccgcgtagt tccctttgcg cagcagtctg      480
tgcactcggc ccaccgggaa ctgcaggccc gcgcgggagg agcgggattt ggcctttgct      540
cgcactttgc cgccctgttt cccgcgaccg gacatgatca cctctcgcct acaactccag      600
agacggagac aaaccgctct cggcgtccgg taccggaatg caacgtaccg cacccgaact      660
gcctctacaa actctttacg gccgcgcggc agcccctttc cattggctct ggcgaccaat      720
gacaggcaag ctccgctccc aactagcgct ctggaagaga gaccgcctcc tccagctctc      780
tccaatcaat agagcaatct ccgaatcctc atttacatag ccgctcacat aaataacgag      840
gccagccggc tcagtctttg gggacccaga tgaatttagc gggtacgggt ttttcacgac      900
cacgctcgct tccaagcaca taaactcgta ggaaataaga aaacatggtt tgaaacagaa      960
aacaatccag aagaagagct acaggggttg tccgtagacg ttgctatgct aagtggatgt     1020
tctcatataa tacaccgtac tactcaggta ggtttctgtc tccgcagccc gtgctgctta     1080
tgcgaaacaa cagcctgtcc gcggaattct gcctgcccag gacagggtcc gtggactgtt     1140
tcttatacaa gcgccttgcc tccagctagc tacccaacag tgtagagacc accctggtct     1200
ccccgcaggg tcctgcggct cacagccagc caatcgttca cttttgagtc tgaagctaga     1260
gtgatgacca gacgtgaatg cttcctgtgc tgacgggagg aacaagctcg cctagccaaa     1320
atatcttttg tctttgaggc tatgggcctg caaagagcca ctaggtttta ttggagaggc     1380
caaagtcttg gccttggctt gctccccgca agccagggcg ccacagatca gcggatcggg     1440
tcctctggga agacgtggag gtcccccggg tctctttg                             1478



        <210> 6686
        <211> 3380
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (33)...(3065)
        <223> similar to gi3811347 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6686
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ggagcgagtt acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc       120
cctacctgga caaaccccca actccgctcc acttctaccg ggactgggtc tgccccaaca       180
ggccgtgcat tatccgcaac gctctgcagc actggccggc cctccagaag tggtccctcc       240
cctatttcag agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt       300
acgcggatgc cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga       360
gcttcgtgct ggatgtgctg gagggccggg cccagcaccc tggagtcctc tatgtgcaga       420
agcagtgctc caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg       480
tgccctgggc ctccgaagcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg       540
aggcggctgc agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct       600
caggagagaa gcatttcctg ttccatccgc ccagcgaccg gcccttcatc ccctatgagc       660
tgtacacgcc ggcaacctac cagctaactg aagagggcac ctttaaggtg gtggatgaag       720
aggccatgga gaaggcagag gtgtccagga cctgcctgct cacggttcgt gtcctgcagg       780
cccatcgcct accctctaag gacctagtga ccccctctga ctgctacgtg actctctggc       840
tgcccacggc ctgcagccac aggctccaga cacgcacggt caagaacagc agtagccctg       900
tctggaacca gagctttcac ttcaggatcc acaggcagct caagaatgtc atggaactga       960
```

```
aagtctttga ccaggacctg gtgaccggag atgaccctgt gttgtcagta ctgtttgatg    1020
cggggactct gcgggctggg gagttccggc gcgagagctt ctcactgagc cctcagggtg    1080
aggggcgcct ggtaagttga atttcgcctg cagagtctgg ctgaccgtgg cgagtggctc    1140
gtcagcaatg gcgttctggt ggcccgggag ctctcctgct tgcacgttca actggaggag    1200
acaggagacc agaagtcctc agagcacaga gttcagcttg tggttcctgg gtcctgtgag    1260
ggtccgcagg aggcctctgt gggcactggc accttccgct tccactgccc agcctgctgg    1320
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agtgccctgc cctctggtca agtggtgagg cttgtcttcc ccacgtccca ggagcccctg    1440
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gggccctgtg cagaggagca ggccttcctg agcaggagga agcaggtggt ggccgcggcc    1560
ttgaggcagg ccctgcagct ggatggagac ctgcaggagg atgagatccc agtggtagct    1620
attatggcca ctggtggtgg gatccgggca atgacttccc tgtatgggca gctggctggc    1680
ctgaaggagc tgggcctctt ggattgcgtc tcctacatca ccggggcctc gggctccacc    1740
tgggccttgg ccaacctttA tgaggaccca gagtggtctc agaaggacct ggcagggccc    1800
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ctgcagcggt accggcagga gctggccgag cgtgcccgct tgggctaccc aagctgcttc    1920
accaacctgt gggccctcat caacgaggcg ctgctgcatg atgagcccca tgatcacaag    1980
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cctcaacacc aaagggcaga gcttgaccac ttttgaattt ggggagtggt gcgagttctc    2100
tccctacgag gtcggcttcc ccaagtacgg ggccttcaat cccctctgag ctctttggct    2160
ccgagttctt tatggggcag ctgatgaaga ggcttcctga gtcccgcatc tgcttctttA    2220
gaaggtatct ggagcaacct gtatgcagcc aacctccagg gacagcttat actgggcctc    2280
agagcccagc caattctggg gaccgctggg gtcaaggaac caggccaacc tgggacaagg    2340
agcaggtccc ccttctgaag atagaagaac caccctcaac agccggcagg atagctgagt    2400
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gcctccattt ccacaaagac tactttcagc atcctcactt ctccacatgg aaagctacca    2520
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ttggctacct catcaatacc agctgcctgc ccctcctgca gcccactcgg acgtggacc    2640
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aggcggcagc gcaaggcccc cactgatggc cggggcccct gcccacccc taactctcat    3120
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tcgggctcag gtggcactgt cccagggtcc aggctgaggg ctgggagctc ccttgcgcct    3240
cagcagtttg cagtggggta aggaggccaa gcccatttgt gtaatcaccc aaaaccccc    3300
ggcctgtgcc tgttttccct tctgcgctac cttgagtagt tggagcactt gatacatcac    3360
agactcatac aaaaaaaaaa                                                 3380
```

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        <400> 6687
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aatgattctt gtcggtttgc aaaccactgt ctgcctttat ttacctacac aaacacggaa      120
cagaatttcc aataggagag gttcacacag ctaacaaagc atagagtgtg tgacctcaat      180
aaggcattca acaaagacac acgccgtatt tccctctgac tgcgttccct taggatgctc      240
tgatgttggc gtcgcattct tctaaaagta gaatcaaatc ttcaatcagg ctgtgttctc      300
tgccatgtgt cactctcata atatcaaaag ccagtctcag attcttcatt gcttggggaa      360
acatgccttg atgtagctgc agtttgccaa ctttcatcac ttgaacccct ctgacgggat      420
ggcttcctgg gaaaaaaatc ctgtatggct ccatggtccg agtaccatag aacaaggctt      480
cctccaacag gccgaggttg atgcaggcat ccatggcgca gtcgagcacc ttcagctggt      540
agatgttgat atcgggaagc cgttcagaat tgctgcttat gatcgcctgg cacatggcca      600
gaacctgctc ccacttccag tgtgccttca gttcttcaat ttttttcagg gattcttgaa      660
cttccttcca tacttgctca tcaccagtta gcatatcagc atccttgtcc tgggtttggc      720
aacggaaacc agtcacattc aaagcagtac tggtccctca gctgcttccg gcgctcctca      780
ctggtcatca gcatatccag gtagcagatg gtgagctcct ctcccacctc gatgtctcgg      840
actgctcgca gtaagaggtg gggcccattg aacacaatcg aacagttggg gtcacagctg      900
tgattgagca aagagatact gggatatagg ccaacaccaa cttcctgcat ctccgcatta      960
cagatggtga aagagttgca gatcactttt gcaaaggctt caaaaaggtc aaaggcaggt     1020
ggcagctgag aggcatcctg tatttcttct ctcatgaaat gttgaaatgt cattacgagt     1080
tgcctgaggc cctctttctt atcttcagtc agtttgttaa tatttgactc cagatcataa     1140
aatgagtaaa gcttctctga ttctgaaggt gctccatcca taagtttgaa gacaactctg     1200
ccaagaagtc gaacggagtc tggaggatat ctgggtttgc agcttttaag gcatttgcat     1260
tcccgcttgt ggtctggcca agcttttttc tgacacttag cactacagta tttggcgacg     1320
cggcactgag agcatcgcat cagcttttcc ttcccgagaa ggcagcggtc gcagacgacg     1380
ccacgactcc ccttgcacac cgtgtacgcc aagggatccg agcggaagag tagctctccg     1440
gggcgcagcg gggtcacggc gcgcagcccg tttcccctgt tggcggttgc gaacttttcc     1500
accttcagcg gctccatcct cccgcagctc cggcacctca gacggctacc cgcgcccagc     1560
agcgggcgtc tcacgggctg ccgggacccg cgcgcctgcg ccctgacgaa a              1611
```

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        <210> 6688
        <211> 3401
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (751)...(2472)
        <223> similar to gi1050530 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
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        <400> 6688
tttttttttt ttaaatggaa tctcactctg tcacccaggc gggagtggtg caatggcttg       60
atcttccgct cactgcaacc tctgcttccc gggttcaaac tattctcccg cctcaacctc      120
ccaagtagtt gggattgcag gcacgcgcca ccacgcccgg ctaatgtttg tattttttagt     180
agagacgggg ttttgccatg tttcccaggc tggtcttaag ctcaagcgat ccgcccgcct      240
cggcctccca aagtgctggg attacaggcg tgagccgatc ggctcctggc ctcctgcttc      300
tttcttcccc gcgcccaatc atttgttccc actcagacgt gcttgattgg cggtagcagc      360
```

```
tctttcgtc atgaattgga gtgtctgaga cacaggcaga ttattcctcg atgctgtttc    420
tgttggtgct agctactggg gctcgttccc cacctggcct tgctggcagg ttctgcctcc    480
tctctgattc tcacttgtgc cacgacaggt gggctttaag ctcagccgtg agcctggtag    540
ccgtgacctt gactcatttc tccttcgcca gctctttcct ctcaggatcc tgctctttcc    600
ctgaaagaga atctcgagga tatatcgggt tggggtcttc ccgaagccag gtccaaggaa    660
tcggtgagtt tcaaggatgt ggctgtggac ttcacccagg aggagtgggg tcaactagac    720
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ctaggacctc cactgcacaa gccagatgtg atctctcatc tggaacgagg cgaggagcca    840
tggagcatgc agagggaagt ccccagaggg ccctgtccag aatgggagct gaaggcggtg    900
ccctctcaac agcagggcat ttgcaaagaa gaaccggccc aggagcccat catggagcgg    960
cccctcggcg gggcgcaggc gtgggggcgc caggcaggtg ctctgcagag gagtcaggct   1020
gcgccctggg cgcccgcacc tgccatggtc tgggacgtcc ctgtagagga attccccctc   1080
aggtgtcccc tcttcgccca gcaacgcgtt cccgaggggg gacccttgct ggacacacgc   1140
aagaacgtcc aggccactga gggcagaacc aaggcccccg cgagactgtg tgcaggggaa   1200
aacgcctcca cgccaagtga gccagaaaag ttcccccagg tgcgccggca gcgcggggcg   1260
ggcgccgggg agggcgagtt cgtgtgcggc gagtgcggga aggcgttccg ccagagctcc   1320
tccctcacgc tgcaccggcg ctggcacagc cgggagaagg cttacaagtg cgatgaatgc   1380
ggcaaggcct tcacctggag caccaacctt ctggagcacc ggcgcatcca caccggcgag   1440
aagcccttct tctgcggcga gtgcgggaag gccttcagct gccactcgtc cctcaacgtg   1500
caccagcgca tccacacggg cgagcggccc tacaagtgca gcgcctgcga gaaggccttc   1560
agctgcagct cgctgctcag catgcacctg cgggtgcaca ccggcgagaa gccctaccgg   1620
tgcggcgagt gcggcaaggc cttcaaccag cgtacacacc tcacacgcca ccaccgcatc   1680
cacacgggcg agaagcccta ccagtgcggc tcctgcggca aggccttcac ctgccactca   1740
tccctcaccg tgcatgagaa gatccacagc ggggacaagc cgttcaagtg cagcgactgc   1800
gagaaggcct tcaacagccg ctcgcgcctc accctccacc agaggacgca cacgggcgag   1860
aagcccttca agtgcgccga ctgcgggaag ggcttcagct gccacgcgta cctgctcgtg   1920
caccggcgca tccacagcgg cgagaagccc ttcaagtgca acgagtgcgg caaagccttc   1980
agctcccacg cctacctcat cgtgcaccgg cgcatccaca caggcgagaa gcccttcgac   2040
tgcagccagt gttggaaggc cttcagctgc cactcgtccc tcatcgtgca ccagcgcatc   2100
cacaccggtg agaagcccta caagtgcagc gagtgcggca gagccttcag ccagaaccac   2160
tgtctcatta aacatcagaa aatccactcc ggggagaagt cgtttaagtg tgagaaatgt   2220
ggggagatgt tcaactggag ctcgcacctc actgagcacc agaggctgca cagcgagggg   2280
aagcccttgg ccatccagtt caacaaacac ctgctcagca catactacgt gcctggcagc   2340
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gcaaagctct tgtgcgtggt tccccccaga gctggcagga atttctccct ggggagcaaa   2460
cctcgaaact aacatgatgt gctttggtgt cagtagctgc tttctgagct actcaacaag   2520
gaaagcaccc tggtcctccc tggctcctag atccagacca ccttcctcca ggtgtgggag   2580
ccttgcctta tcaccccaat caggtctgca tgccagggtg cctcctctag ttaaagtcag   2640
tcacctcccc agaagggcca cactccagga ggagtgttga gagtcatttg aggtagtctt   2700
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aataaaaaga agggatatcg ttgggtgcca tggctcacac ctgtaatctt aacactgtgg   2820
gaggccaagg caaggggatc acttgagccc aggagtctag gaccagcctg gacaacatgg   2880
tgagacctcg tctctacaaa aaatgcaaaa attagccaga tgtggcggca tgtccctgtg   2940
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cagtgagcca tgattcacag cactgcactg cagcctgggt gacaaagcaa gaccctgtgt   3060
gaaattaaaa ggagtatat caactgttgt atcctcggac gggctcctga catggcttta   3120
atcaggagtt tcctccataa actattattt tcagaataat aataaaacaa gaattatgac   3180
tagcatcact ttccagtgaa cattattata ttgctagaga ggagaataat cttgggtggt   3240
gggcatttgg aaaaagtgaa tttcctgaac ttaactcatg taaatagctc tactgcagag   3300
ctgtgtgttt agtgacagtg cagtcagggg cattcccaca gctgtcacag cacggcccag   3360
catcattgta gccagatcct aacatgccaa catcacctct t                      3401
```

<210> 6689

<211> 2622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (83)...(2325)
<223> similar to gi53466 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6689
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gagtggagat ggcaacacag gcacacaaac caatggtctg gactttcaga agcagcctgt     180
gcctgtagga ggagcaatct caacagccca ggcgcaggct ttccttggac atctccatca     240
ggtccaactc gctggaacaa gtttacaggc tgctgctcag tctttaaatg tacagtctaa     300
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gcaggcagcc attccccaga cccagcttat gctagctgga ggacagataa ctgggcttac     420
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gttggtgcat ccaaccacca atttgcagcc agcgccagtt tatcatctca cagacgcccc     720
agggccagca gggtctcctg caagcgccaa aatcttctaa cgcaactacc tcggcaaagc     780
caagccaacc tcctacagtc gcagccaagg attaaccctc acttcccagc cagcaacccc     840
aacatgcaca atagcagcaa ccccccattca gacacttcca cagagccagt caacaccaaa     900
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ccaagacctt caaacaaaga cgaatcaaac ttggattcac ctcaggggga tgctgggctc    1020
gctatggtga aactatatgg aaatgacttc agcccaacta ccatctttcg atttgaagcc    1080
ttgaacctca gctttaagaa catgtgcaag ttgaagccac ttttagagaa gtggctaaat    1140
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ggaattgagg gcttgagccg taggaggaag aaacgcacca gcatagaagc ccaacatccg    1260
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tgattgccga tcagctcaat atggaaaaag gggtgattcg tgtttggttc tgtaaccgcc    1380
gccagaaaga aaaaagaatc aacccaccaa gcagtggtgg ggaccagcag ctcacctatt    1440
aaagcaattt tccccagccc aacttcactg gtggcgacca caccaagcct tgtgactagc    1500
agtgcagcaa ctaccctcac agtcagccct gtcctccctc tgaccagtgc tgctgtgacg    1560
aatctttcag ttacaggcac ttcagacacc acctccaaca acacagcaac cgtgatttcc    1620
acagcgcctc cagcttcctc agcagtcacg tccccctctc tgagtccctc cccttctgcc    1680
tcagcctcca cctccgaggc atccagtgcc agtgagacca gcacaacaca gaccacctcc    1740
actcctttgt cctcccctct tgggaccagc caggtgatgg tgacagcatc aggtttgcaa    1800
acagcaggca gctgctgcct ttcaagggag ctgcacagtt gccagcaaat gccagtcttg    1860
ctgccatggc agctgctgca ggactaaacc caagcctgat ggcaccctca cagtttgcgg    1920
ctggaggtgc cttactcagt ctgaatccag ggaccctgag cggtgctctc agcccagctc    1980
taatgagcaa cagtacactg gcaactattc aagctcttgc ttctggtggc tctcttccaa    2040
taacatcact tgatgcaact gggaacctgg tatttgccaa tgcgggagga gcccccaaca    2100
tcgtgactgc ccctctgttc ctgaaccctc agaacctctc tctgctcacc agcaaccctg    2160
ttagcttggt ctctgccgcc gcagcatctg cagggaactc tgcacctgta gccagccttc    2220
acgccacctc cacctctgct gagtccatcc agaactctct cttcacagtg gcctctgcca    2280
gcgggggctgc gtccaccacc accaccgcct ccaaggcaca gtgagctggg cagagctggg    2340
ctgccagaag ccttttttcac tctgcagtgt gattggactg ccagccaggt taataaactg    2400
aaaaatgtga ttggcttcct ctcgccgtgt tgtgagggca aggagagaa gggagaaaaa    2460
aaaaaaaaac ccccccccc ccttcccccc ttcccaaaaa aaaaaaaaag gggggggggcc    2520
ggacctttgg cctattttg taataaaaca ctgtcttttc aggattgctt catggattgg    2580
```


5353

<210> 6690
<211> 1558
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1533)...(529)
<223> similar to gi4809026 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6690
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agttccctgt gataatttct caaagttctc attaaaaact taagaaaaag gtaaataaac     60
caaacatctt catagaaaaa ttgtatttac aactccattc aaaagcagtt tttaaaagca    120
aacacaatgt aacactgaag gtgaaaaatc taagctcacc caaagctgcc aggtctaata    180
aattactgac agaatactgt atcaaaaata aggcaataac cgaaaatata ccattaaaga    240
tttctccatc cccacaacta gatagaatga atctatctag gagcaaatga catgctttat    300
tcagtttcac catgtctgaa atctttaagg acagaagtga taaaatgtta tcttcattct    360
tcattagact tgaacacttg aaggaaaata atttctaaag cacaaagagg taaagaagta    420
taatctttca aaaagatatt cagtgttcaa aattcaagaa tgcaatatca atacacaatg    480
ggcattaggt gaatatacac aatacgatga gagcaaatta atttatttag tactttttcc    540
attccatatc atcaggagga ttgatttcaa cttttcctttt acctacatca gaccagttgg    600
tactcaaaac tgtaccaccc gactccataa aggatttgtt catggcacgt ttcacttcat    660
cagaaccatc tgaatagatc tgctgaaata atctgtttaa agctgcatct ccctccaact    720
tttcattctt ttcttcttct ttgatctcac caaccaattt atcccaattt cttgtataag    780
gagatgatga tggatatagg ttctttacat ctgctacgaa ttgttttggc gtaggcacat    840
ctccttgccc ctctagcttt tcccatctca cagcctctgg cttttttcagt ttaatttcaa    900
tctttgttga aagtacttta aacgtgctct gttctggtat tataggatga agaagttcca    960
gtttcaaatt gtaatcctct ccagaaggaa gtttaaccaa agcagacaac tctttttctg   1020
aaaattccac atttacatca ttcttctgaa cattcttgat cataagtgta atgactactt   1080
gagattctgt ttgataccag tcatacttga ttttttgactg atgagtccac acctcagatt   1140
ctgagccatt ctgagcttct tgacaccttt taatccagac actgaaatta gcatctgcac   1200
tatctaattt ttgtccttct gtaaaagttt ctagggcagc agcatagttt ttttcatggt   1260
attcacatat tccttttctc agcatagcag tggaattatt tggattgagt tctagagact   1320
tctttgcatc agcaacagca acacagtaat tcccaagaag aatgtgacaa taagctcttt   1380
gacaataata ctgtgcatca tctggtttct gttccaaagc cttagtcagc tcctctaacg   1440
ccgcctgggg gtcctcgtcg attagggcat ccgagaagct ctggaaaaac acctctggga   1500
tgttgcagtt cctgctgcag ccgccgccat ccctcgtagt cgctgttctg ccgccgga     1558
```


<210> 6691
<211> 2179
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1880)...(973)
<223> similar to gi1695155 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

      <400> 6691
tttttttttt ttaatattag caaagtttta cttttttttt ttctgctcat aaatgactct   60
gaaaaagcca atacgcaaga ggctaacaca actgtagtct aaaggcaacg tcgaggtcac   120
tgatatgtcc ctcagacaag aggcactgct cagaatcccc ctgtgctggg ggtgagggaa   180
ggaggggacg gtttaggaca gaggaataaa tacatgtggt tgtgggagtt ctgccatcag   240
ggatggtggc cccagcccag gaccccaaaa ccctgaggcg gtgcagtggg ctgccaaccc   300
cccagctcgg ggttccccaa ggctgcctca gtgtttggat gggctggaag gaaatgctga   360
ggttctggga gggccccatg gccagccccc tcttcccact ctagccagag gagagccaag   420
ctcccggctg gccagggccc tggggtaggg agcagtgccc ccaagagggc tttctggtgt   480
caatgtctca tgcagcgtca ggtggtgagg cctgggcctg gccctgaggc gggagtgggg   540
gtgacaggcg aggctggggt gggccctggc acctgcagct ttgggctgcc catgtgtgtc   600
tgctgacatc ccgactatgg tccacggccg ggaatggtgg gcagacgggg ctgctggcag   660
ccctcagcct tatagtgtgt gtgtgggggtg gacgaggggt catgaggaca gggatggggc   720
tgggcgtctc tggtaaggac cagtaagtgc caggcaggac gtactctgaa ggctcagccg   780
tggcccatct gggacacagc cctgctcccg aaggggctcc aggggaactg ctcagccagg   840
tgattcacca gggcacgggc aggccaggct gaacccgggg ccccagtgtg cgatgtgggg   900
aggtgactgg gtgagcgtga acagggcgtg gggtgcgcgg ggcgggtggc cgtgtgaccg   960
tgcccggccc tcagaagacg aagcagcgct ccgtggggtg gcccacgtgg tcccaggttg   1020
ggaaggcagg cgtactggat catgggtggg gggccacaca tcagcaccag cggctcctcc   1080
ctctgggggt ggaaggtggt cccggatcat ctcctcattc acgaagcccc tggccgtagt   1140
cccaggcttc aggggctctg tccagcgtgt accagagctt gaagcgtgca gaatgtttgt   1200
tcctgagttc ctccagctca ggtcgcagca ggatgtcctt ctcggtctgg ttggcaaaga   1260
gcaggtggca cacagtgtgg tcatcagggt ccttcatgat ggcgcggatc acctgcagca   1320
tcggggtgat gcctgtccct cccgcgatca tgcccacaga cttcactgtc ctgatgatag   1380
ggttggactt tttgtcaggt cggatggcga acttcccttt gccctggtag accagcagcc   1440
cactggggcc ccggaactca atggtgtctc caatctgcat gctctccagg tactgagaca   1500
tcttccctcc agcgggaaac ttgggatggg tgtccttgaa gtaaaccttg atgaccaggt   1560
ccacgaagcc cttgtcatca tcgctggaga tgggtgtata gggccggacg accaggtttc   1620
catcaattcg agccgagagg tagatgtgct ggccgacagg gaggcccagg atgtgctggg   1680
gtgacggcag ggcaaagcgg aagcgccggg tgtcatggct gatgatctcc cggtcgatga   1740
gccgcagcgg gtacttgatg tccgggctct cgagggtgat ggctggcgtg gagcgctgga   1800
acagcttcat gagcagactg tacaggaacc agactgggaa gagcaccata tggcccaacg   1860
tgctgagctg ggcccccatg gtggccccgc gccgcgctcg ctctgtcgcc gccgccgccg   1920
ccgccgagac cgtcgcgccc gggcccgcgt cactccggag caggggcggg gccgagggc   1980
caggcgggcg cgcggggcgg ggcgggcgcg ggggcgggga ccgggtcgct ccgcctgctt   2040
ctgccgggga tggagactgg gaactgggga tgcggccctc tgcgctccga gctctcccgc   2100
gctgtgctgc cccgcgcggg acggtggcct ctctgggcct cgttcgccgc cataaaggaa   2160
gcaagatggc gcccccgg   2179

      <210> 6692
      <211> 1911
      <212> DNA
      <213> Homo sapiens

```
<220>
<221> misc_feature
<222> (1812)...(785)
<223> similar to gi556389 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




      <400> 6692
tttttttttt ttaccagtat agaaatttat ttgaattcaa aataatatgg ctatatttat         60
aataatataa taattatcta aagcaaatat catcattggc tctgaaatgc gtctaaagat        120
gtcattctta agtcaaaaaa tatgtagtaa gaatgtccaa gaaagaaaaa aatataaaac        180
caagtctgct gagtgtcggg agttggtgag ggatatccta ccatattgtg acggagtcca        240
aatagaaaac atgcagcaac agttctcctg ctttatcagc tccctggaaa ataaaccagt        300
aaccctggta gtgcagtaac catttggtta acaggacaaa cttcctgatg gacacagata        360
gtaattcact gcatttccct tctctaactt ctctcttcac accaattcct tttctttcct        420
ttaagatggg tttcatcctg ttgacaaaag atttggtttt atttgtaaag taaagcagat        480
aatatcctga ttgaagtatt caatgattta gttgaggatg cttggggatc aaactttgta       .540
aaaaggtcaa ttaagctagt tagcagagac tatcagtggc ttgcagaaaa aaaattcgga        600
taatatgttt gttaaaaaga caaaaagaat aagcggtgaa aaatcctagg gattactgtg        660
acctagacaa tcaaaagcag ataggtgacc tttgattaaa tccatttact tgtggagtga        720
gctaaaagga ggctccaaga cagagtttgg ttcccaacag tgtccgtggc caaagggcac        780
actcagaagg tctcctcctc tcgtaggaac tggaacacgg atgagaagtc tttctttgag        840
tagccctttg cacacatcat cctgtagatc tgatgggcca gactgccaag aaggattggg        900
ctctttgtgc tggtagcaga gtcttgtgcc aatcccagat ccttagccat gagtgttgtt        960
ccaaatccac cctgatagtt attagccgag ggaacgccat ccatcactcc aggtacagga       1020
ttataagtgt cacttgacca acaccgtcct gagctcatat ttaggatttt agccagtagt       1080
tttgggtcaa gccctaacct gattccaaga ttcatagctt cagcagttcc aatcatacta       1140
atagctaaca gcatgttgtt gcagatcttt gccgcctgcc cagtcccaac agctccacag       1200
tacaccacgt tggagcccat gcaccccagc aactcttggg cagcagcaaa ttcatcttca       1260
actcctccca ccataaacgt gaggttccca gatcgtgcag ctcctacacc accagaaaca       1320
ggggcatcca tgaaaactgc tcccattttc tcaacttctt tggccaattc ttttgaaact       1380
gcaggatcaa tagtgctgga atctattaat aatgagccct tcttcacttt ttttagaatc       1440
ccatttgctc cggaataagc ttctattgca ttgatactgg tgggcagcat tgtaataatt       1500
ctgtcagctt tttcagcaac atctgctggg gaagatacta cctgttcacc tgcatcttga       1560
aactctttgc aggcatcagg gaacacatca taaataataa gtggatagcc atgtttcatg       1620
agattttttg ccattggatt ccccatgttg cccagtccaa tgaatccaac tggagtcttt       1680
gaagccactg acctagaaca caccgctgca aagctgccgg ctgccggccg cagccgccgg       1740
ctccagtacc ggagaccgga ggcagctccg aggagccgta aggaggctgc catgctgcgc       1800
ccgcccctct ccccgcggtg acctccgccg cctcccggag ggcccacaga ctgcgagcgt       1860
gtgcagcggg actggctggc cggacgcgtg ggtcgaccca gggcatctgc a               1911




      <210> 6693
      <211> 3092
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (558)...(2945)
      <223> similar to gi4589476 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters




                                    5356
```

```
     <400> 6693
     agcacctgct ccacagatgg tttggcactg atatgcagat gattaatttc acaactggtg      60
     aattccagct caccgaagct tgcccttacc tgggtacgca ttctgaggaa tccaggtttg     120
     gcatcctcca cttacatctg cagcctttgg aaatgaaaag ggttggcgta gttttcacac     180
     ctgctgacta tggaaaagtt acctcactca tactaatccg gaataacttg actgttattg     240
     acatgattgg cgtggaagga tttggagcaa gagagttatt aaaagtgggt ggaagacttc     300
     ctggtgcagg aggctcactc cgatttaagg tgcccgagtc cacgctgatg gactgccgta     360
     gacaactgaa agacagtaag caaattttat ctattacaaa gaactttaaa gttgagaata     420
     ttggacctct tcctataact gtttcgtctc tgaaaattaa tgggtataac tgccaaggtt     480
     atggattcga ggtgctggat tgtcatcagt tttccctgga cccaaacaca tcccgcgata     540
     tcagcattgt gttcactcca gactttacct cctcctgggt aattcgggac ctaagtcttg     600
     taaccgcagc ggacctagaa tttcgcttca ctctcaatgt gactctccct catcacctgt     660
     tgcccttgtg tgcagacgtg gttccaggac ccagctggga ggagtcattt tggaggctca     720
     cggtcttctt tgtcagtttg tccctgttgg gtgtgatttt aatagccttc caacaagcac     780
     agtacattct catggaattc atgaaaacaa gacagaggca aaatgctagc tcctcttcac     840
     agcaaaacaa tggtcctatg gatgtaatca gcccccattc ttacaaaagc aattgcaaga     900
     actttctcga tacatatggc ccctctgata aaggcagggg gaagaactgc cttccagtga     960
     acactcccca aagcaggatc cagaatgctg caaagaggag cccagccacc tatggtcatt    1020
     ctcagaagaa gcacaaatgc tcagtgtatt acagtaaaca caaaaccagc acagctgcgg    1080
     ccagcagcac cagcacgact actgaggaaa aacagacttc acccctgggc agctcactgc    1140
     ctgctgctaa agaggacatt tgcactgatg ccatgcgtga gaactggatc agcctcagat    1200
     atgcaagtgg cataaatgtc aacctgcaga agaatttaac ccttcccaaa aacttactga    1260
     ataaagaaga aaacacactg aaaaacacaa ttgtttttcag taatccttct tcagaatgta    1320
     gtatgaagga gggaatacag acatgtatgt ttcctaagga aactgacatt aaaacttcag    1380
     agaacacagc cgagttcaag gaacgggagc tctgtccact gaagacctcc aagaaactac    1440
     ctgaaaacca tttaccaaga aactcacctc agtaccacca gccagacttg ccagaaattt    1500
     ccaggaaaaa taatgggaat aaccagcaag tacctgtcaa gaatgaagta gatcattgtg    1560
     aaaatttgaa gaaggtggac acaaagcctt cttcagaaaa gaagattcac aaaacatcta    1620
     gagaagacat gttttctgag aaacaggaca tacctttcgt agagcaagaa gatccttata    1680
     ggaagaaaaa gcttcaggag aaaaagagaag gaaatttaca aaatttaaat tggagtaaaa    1740
     gtcgaacatg tagaaagaac aagaaaaggg gtgttgctcc agtctcaagg cctcctgaac    1800
     agagtgatct aaagcttgtg tgcagtgact ttgagaggtc tgagctgagc agtgacatca    1860
     atgtaagaag ctggtgtata caggaaagca ctagggaggt ttgtaaagca gatgccgaaa    1920
     ttgcaagcag tttacctgct gcccagagag aggcagaagg ttactaccag aagcctgaga    1980
     agaaatgtgt ggacaagttc tgctccgatt ccagctctga ctgtgggagc tcctctggca    2040
     gcgtgcgtgc cagccggggc agctggggga gctggagcag caccagcagc tccgacgggg    2100
     ataagaagcc catggtggac gcccagcact tcctgccggc cggagacagt gtttcacaaa    2160
     atgattttcc ttctgaagct cccatctcct tgaatctttc tcataacatc tgcaatccca    2220
     tgaccgggaa tagtctccca caatacgcag agccttcctg tcccagcctt cctgccgggc    2280
     ccacaggtgt tgaagaagat aaaggtcttt actcacctgg agacctgtgg cccactccgc    2340
     cagtgtgtgt gacaagcagc ttaaactgca ccctggagaa cggcgtgcct tgtgtgattc    2400
     aggagtcggc cccggttcat aatagtttca ttgattggag tgcaacatgc gaaggccagt    2460
     tttccagcgc atactgtcca ttggaattga cgattacaa tgcctttcca gaagaaaaca    2520
     tgaactatgc caatggcttc ccctgtcctg cagatgttca gacagacttt attgatcaca    2580
     actctcagtc tacctggaac accccacccc aacatgcctg cctccctggg gaaaatgccca    2640
     gtttccatcg agctctcggc cctacctcaa aagcaccccg aaagcttgtc tcccaatgtc    2700
     tggacttttt ggtcccatcc tgggccccgc caaagcgatg tgtatgaaaa ttgctgcccc    2760
     atcaaccccca ccacggaaca ttcggacccc acatggaaaa ccaagcgggt cgtgtgcaag    2820
     gaatactacc cggggttcaa acccgtttcg cgcctatatg aacctggaca tatggactac    2880
     cacacgcgaa taggaatgca aatttcccac tgtctagaga ctcgagttac tgtgggaatg    2940
     tgtgaaaata attggatttt taatacaatg tgaataaaga ggcttgtgtt ttgattacta    3000
     gtgtaaactg gttattgaga tagattatga cattgttgga tattttggca cttttatatg    3060
     aaaataaatt ttttaatgaa aaaaaaaaaa aa                                  3092
```

```
<210> 6694
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (391)...(741)
<223> similar to gi1340174 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


        <400> 6694
ctagtccagt gagctggaat tcgcgccttc aacttgccag gcactaatta gactagcgca        60
gagaaacggg gataagtact gatgagggtc ccagccctca gcgatcggat ttcagagggg       120
gagataaagg actgcccaga agggtggtga gtggagtagt tgatataaac aacgaggtgc       180
gatgaaatac acaggagggc tgctaatcac atatggggtg ggtgccgagg gcccttaatt       240
aagggaggct tcctggacgg gtgacaccca agcggagtcc tgacgacccg cgtcagaagt       300
agtcaggcga ggaggagggt aaaggaatcc acgtcccaag cagagaagca gctttcccta       360
cacagcacag gacacggtcc gcgcacagaa gccgcaggag acgcaggcac aggggctggg       420
gagaatcctt gctgggccct cgccgcctcc ctctgccggg tgtctggtgc cagcctcctg       480
cctggcagag gagctccagc ccctgctccc ggaagcccct ccaggccttc ggcttccctg       540
actgggcatg ggcccctcgt cccctcgtcc cctcgggtac ggggccggtc tccccgcccg       600
cgggcggcga agtaaaggcc cagcgcagcc cgcgctcctg ccctggggcc tcgtctttct       660
ccaggaaaac gtggaccgct ctccgccgac aggtctcttc cacagacccc tgtcgccttc       720
gcccccggtc tcttccggtt ctgtcttctc gctg                                   754



        <210> 6695
        <211> 2297
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2298)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (73)...(1965)
        <223> similar to gi3808148 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

<400> 6695
```
ttgcagccgc gctgcgcgca ccgcgggctc cgggctcaga agtgcggacg cccggctccc      60
ggcgtggacg ccatggtgct gtgcccggtg attgggaagc tgctgcacaa gcgcgtggtg     120
ctggccagcg cctccccacg ccgtcaggag atcctcagca acgcgggtct caggtttgag     180
gtggtcccct ccaagtttaa agagaagctg gacaaagcct ccttcgctac tccgtatggg     240
tacgccatgg agaccgccaa gcagaaggcc ctggaggtgg ccaaccggct gtaccagaaa     300
gacctgcggg cccccgacgt ggtcattgga gcggacacga tcgtgacggt cggggggctg     360
attctggaga agccggtgga caagcaggac gcctacagga tgctgtcccg gtttgagttg     420
ggagagaaca cagcgtgttc acaggtgtcg cgatcgtcca ctgctccagc aaagaccatc     480
agctggacac cagggtctcg gaattctacg aggaaacgaa ggtgaagttc tcggagctgt     540
ccgaggagct gctctgggaa tacgtccaca gcggggagcc catggacaaa gctggcggct     600
acgggatcca ggccctgggc ggcatgctgg tggagtccgt acacggggac tttctgaacg     660
tggtgggatt cccgctgaac cacttctgca agcagctggt gaagctctac tacccgcccc     720
gtccggagga cctgcggcgg agtgtcaagc acgactccat cccggccgcg gacaccttcg     780
aagacctcag tgacgtggag ggggtggct cggagcccac tcagagggac gcgggcagcc     840
gcgatgagaa ggccgaggcg ggagaggcgg gacaggccac ggcagaggct gagtgtcaca     900
ggactcggga gaccctgcct ccgttcccga cacgcctcct ggagctgatt gagggcttta     960
tgctatccaa gggcctgctc accgcttgca aactgaaggt gttcgatttg ttaaaagatg    1020
aagcacccca gaaggctgcg gatattgcca gcaaagtgga cgcctctgcg tgtggaatgg    1080
agaggcttct ggacatctgt gctgccatgg ggctcctgga gaagacagag caaggttaca    1140
gtaacacaga gacagcgaac gtctacctgg catcggatgg cgaatactct ctgcacggct    1200
tcatcatgca caataatgac ctcacatgga acctctttac atacctggag tttgccatcc    1260
gagagggaac aaaccagcac cacagggcgt tggggaagaa ggcggaagat ctgttccagg    1320
atgcgtacta ccagagcccg gagacgcggc tgaggttcat gcgggccatg cacggcatga    1380
cgaagctgac tgcgtgccag gtggccacgg ccttcaatct gtcccgcttc tcctccgcct    1440
gcgacgtggg aggctgcacc ggtgcactgg cccgagagct ggcccgtgag taccctcgta    1500
tgcaggtgac tgtgtttgac ctcccagaca ttatcgagct ggccgcccac ttccaacccc    1560
ccggaccgca ggcagtgcag atccacttcg cagcaggtga cttttttcagg gaccccctcc    1620
ccagcgctga gctgtacgtc ctgtgccgga tcctgcatga ctggccagac gacaaagtcc    1680
acaagttact cagcagggtc gccgagagct gcaagccagg ggccggcctg ctgctggtgg    1740
agacgctcct ggatgaggag aagagggtgg cgcagcgcgc cctgatgcag tcactgaaca    1800
tgctggtgca gactgaaggc aaggagcgga gcctgggcga gtatcagtgc ttgctggagc    1860
tgcacggctt ccaccaggtg caggtggtgc acttgggggg tgtcctggat gccatcttgg    1920
ccaccaaagt ggccccctga agcccaggca gcatgttcat tataggatg tcctcccca    1980
ggctgcaggt ggaccgcccg gtccccaagt accataggac agtcacatag gagcgtgtag    2040
tcgtgactcc tagcaggcag acggctgctg tgacggtgcc gtctaccagg caggtctca    2100
gtccttctcc gcactccagc ctgcatcttc ccatcttctg cacgatttcc agtgtgtttc    2160
ctccatggga cgccatcgct gccgctcacc cctggatgcc cacaggctat ggagtggcag    2220
ttctctgggc ggcttccatc tctcctgcct tggtgcagga attccgccgc nctgtacgaa    2280
ggtcatcagt ggtggca                                                   2297
```

<210> 6696
<211> 6310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (74)...(5426)
<223> similar to gi5911999 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6696
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ttttagtgct gacccaattg caaggccttc agaaataaat ttcgatggca ttaagcttga   180
tctgtctcat gaattttcct tagttgctcc aaatactgag gcaaacagtt tcgaatctaa   240
agattatctc caggtttgtc ttcgaataag accatttaca cagtcagaaa aagaacttga   300
gtctgagggc tgtgtgcata ttctggattc acagactgtt gtgctgaaag agcctcaatg   360
catccttggt cggttaagtg aaaaaagctc aggggcagat gggcacagaa attcagtttt   420
ttcccaggtt ttttgggccc agcaactaca cagaaggaat tctttcaggg ttgcattatg   480
caccccagta aaagacctct tgaaaggaca gagtcgtctg atttttactt acgggctaac   540
caattcagga aaaacatata catttcaagg gacagaagaa aatattcgca ttctgcctcg   600
aactttgaat gtattatttg atagtcttca agaaagactg tatacaaaga tgaaccttaa   660
accacataga tccagagaat acttaaggtt atcatcagaa caagagaaag aagaaattgc   720
tagcaaaagt gcattgcttc ggcaaattaa agaggttact gtgcataatg atagtgatga   780
tactctttat ggaagtttaa ctaactcttt gaatatctca gagtttgaag aatccataaa   840
agattatgaa caagccaact tgaatatggc taatagtata aaattttctg tgtgggtttc   900
tttctttgaa atttacaatg aatatatta tgacttattt gttcctgtat catctaaatt   960
ccaaaagaga aagatgctgc gcctttccca agacgtaaag ggctattctt ttataaaaga  1020
tctacaatgg attcaagtat ctgattccaa agaagcctat agacttttaa aactaggaat  1080
aaagcaccag agtgttgcct tcacaaaatt gaataatgct ccagtagaa gtcacagcat  1140
attcactgtt aaaatattac agattgaaga ttctgaaatg tctcgtgtaa ttcgagtcag  1200
tgaattatct ttatgtgatc ttgctggttc agaacgaact atgaagacac agaatgaagg  1260
tgaaaggtta agagagactg ggaatatcaa cacttcttta ttgactctgg gaaagtgtat  1320
taacgtcttg aagaatagtg aaaagtcaaa gtttcaacag catgtgcctt ccgggaaag  1380
taaactgact cactattttc aagttttttt aatggtaaag ggaaaatttg tatgattgtc  1440
aatatcagcc aatgttattt agcctatgat gaaacactca atgtattgaa gttctccgcc  1500
attgcacaaa aagtttgtgt cccagacact ttaaattcct ctcaagagaa attatttgga  1560
cctgtcaaat cttctcaaga tgtatcacta gacagtaatt caaacagtaa aatattaaat  1620
gtaaaaagag ccaccatttc atgggaaaat agtctagaag atttgatgga agacgaggat  1680
ttggttgagg agctagaaaa cgctgaagaa actgaagatt aggggaaact aaacttcttg  1740
atgaagatct agataaaaca ttagaggaaa ataaggcttt cattagccac gaggagaaaa  1800
gaaaactgtt ggacttaata gaagacttga aaaaaaaact gataaatgaa aaaaaggaaa  1860
aattaacctt ggaatttaaa attcgagaag aagttacaca ggagtttact cagtattggg  1920
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atgctgaacg tcgtttggct atcttcaagg atttggttgg taaatgtgac actccgagaa  2040
gaagcagcga aagacatttg tgccacaaaa gttgaaactg aagaagctac tgcttgttta  2100
gaactaaagt ttaatcaaat taaagctgaa ttagctaaaa ccaaaggaga attaatcaaa  2160
accaaagaag agttaaaaaa gagagaaaat gaatcagatt cattgattca agagcttgag  2220
acatctaata agaaaataat tacacagaat caaagaatta agaattgat aaatataatt  2280
gatcaaaaag aagatactat caacgaattt cagaacctaa agtctcatat ggaaaacaca  2340
tttaaatgca atgacaaggc tgatacatct tctttaataa taaacaataa attgatttgt  2400
aatgaaacag ttgaagtacc taaggacagc aaatctaaaa tctgttcaga aagaaaaaga  2460
gtaaatgaaa atgaacttca gcaagatgaa ccaccagcaa agaaagggtc tatccatgtt  2520
agttcagcta tcactgaaga ccaaaagaaa agtgaagaag tgcgaccgaa cattgcagaa  2580
attgaagaca tcagagtttt acaagaaaat aatgaaggac tgagagcatt tttactcact  2640
attgagaatg aacttaaaaa tgaaaaggaa gaaaagcag aattaaataa acagattgtt  2700
cattttcagc aggaactttc tctttctgaa aaaaagaatt aactttaag taaagaggtc  2760
caacaaattc agtcaaatta tgatattgca attgctgaat tacatgtgca gaaaagtaaa  2820
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agcattacaa ataatgtttc acaaataaaa ttaatgcaca cgaaaataga cgaactacgt  2940
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aatggttctg aggaggataa tttgccaaat acacagttag accttttagg taatgattat  3060
ttggtaagta agcaagttaa agaatatcga attcaagaac ccaataggga aaattctttc  3120
cactctagta ttgaagctat ttgggaagaa tgtaaagaga ttgtgaaggc ctcttccaaa  3180
aaaagtcatc agattgagga actggaacaa caaattgaaa aattgcaggc agaagtaaaa  3240
```

                                        5360

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ggctataagg atgaaaacaa tagactaaag gagaaggagc ataaaaacca agatgaccta   3300
ctaaaagaaa aagaaactct tatacagcag ctgaaagaag aattgcaaga aaaaaatgtt   3360
actcttgatg ttcaaataca gcatgtagtt gaaggaaaga gagcgctttc agaacttaca   3420
caaggtgtta cttgctataa ggcaaaaata aaggaacttg aaacaatttt agagactcag   3480
aaagttgaac gtagtcattc agccaagtta gaacaagaca ttttggaaaa ggaatctatc   3540
atcttaaagc tagaaagaaa tttgaaggaa tttcaagaac atcttcagga ttctgtcaaa   3600
aacaccaaag atttaaatgt aaaggaactc aagctgaaag aagaaatcac acagttaaca   3660
aataatttgc aagatatgaa gcatttactt caattaaaag aagaagaaga agaaaccaac   3720
aggcaagaaa cagaaaaatt gaaagaggaa ctctctgcaa gctctgctcg tacccagaat   3780
cctgaacgca gatcttcaga ggaaggaaga agattatgct gacctgaaag agaaactgac   3840
tgatgccaaa aagcagatta agcaagtaca gaaagaggta tctgtaatgc gtgatgagga   3900
taaattactg aggattaaaa ttaatgaact ggagaaaaag aaaaaccagt gttctcagga   3960
attagatatg aagcagcgga accattcagc aactcaagga gcagttaatt aatcagaaag   4020
tggaagaagc tatacaacag tatgagagag catgcaaaga tctaaatgtt aaagagaaaa   4080
taattgaaga catgcgaatg acactagaag aacaggaaca aactcaggta gaacaggatc   4140
aagtgcttgg aggctaaatt ggaggaagtt gaaaggctgg ccacagaatt ggacagatgg   4200
agggtaaaat gcaatgattt ggaaaccaaa aacaatcaaa ggtcaaataa agaacatgag   4260
aacaacacag atgtgcttgg aaagctcact aatcttcaag atgagttaca ggagtctgaa   4320
cagaaatata atgctgatag aaagaaatgg ttagaagaaa aaatgatgct tatcactcaa   4380
gcgaaagaag cagagaatat acgaaataaa gagatgaaaa aatatgctga ggacagggag   4440
cgttttttta agcaacagaa tgaaatggaa atactgacag cccagctgac agagaaagat   4500
agtgaccttc aaaagtggcg agaagaacga gatcaactgg ttgcagcttt agaaatacag   4560
ctaaaagcac tgatatccag taatgtacag aaagataatg aaattgaaca actaaaaagg   4620
atcatatcag agacttctaa aatagaaaca caaatcatgg atatcaagcc caaacgtatt   4680
agttcagcag atcctgacaa acttcaaact gaacctctat cgacaagttt tgaaatttcc   4740
agaaataaaa tagaggatgg atctgtagtc cttgactctt gtgaagtgtc aacagaaaat   4800
gatcaaagca ctcgatttcc aaaacctgag ttagagattc aatttacacc tttacagcca   4860
aacaaaatgg cagtgaaaca ccctggttgt accacaccag tgacagttaa gattcccaag   4920
gctcggaaga ggaagagtaa tgaaatggag gaggacttgg tgaaatgtga aaataagaag   4980
aatgctacac ccagaactaa tttgaaattt cctatttcag atgatagaaa ttcttctgtc   5040
aaaaaggaac aaaaggttgc catacgtcca tcatctaaga aaacatattc tttacggagt   5100
caggcatcca taattggtgt aaacctggcc actaagaaaa aagaaggaac actacagaaa   5160
tttggagact tcttacaaca ttctccctca attcttcaat caaaagcaaa gaagataatt   5220
gaaacaatga gctcttcaaa gctctcaaat gtagaagcaa gtaaagaaaa tgtgtctcaa   5280
ccaaaacgag ccaaacggaa attatacaca agtgaaattt catctcctat tgatatatca   5340
ggccaagtga tttttaatgga ccagaaaatg aaggagagtg atcaccagat tatcaaacga   5400
cgacttcgaa caaaaacagc caaataaatc acttatggaa atgtttaata taaatttat   5460
agtcatagtc attggaactt gcatcctgta ttgtaaatat aaatgtatat attatgcatt   5520
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gtcaaaattt gtatattttt ataaggcttt tttataatag cttctttcaa actgtatttc   5640
cctattatct cacacattgg atcagtgaag atcctaggaa agaggctgtt attctcattt   5700
attttgctat acaggatgta ataggtcagg tatttggttt acttatattt aacaatgtct   5760
tatgaatttt ttttacttta tctgttatac aactgatttt acatatctgt ttggattata   5820
gctaggattt ggagaataag tgtgtacaga tcacaaaaca tgtatataca ttatttagaa   5880
aagatctcaa gtctttaatt agaatgtctc acttattttg taaacatttt gtgggtacat   5940
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tacctgtatc atggagaatg aggtatccat cccctcaagc attttttcctt tgaattacag   6060
ataatccaat tacattcttt agatcattta aaaatataca agtaagttat tattgattat   6120
agtcactcta ttgtgctatc agatattaaa tcattctttt tatcttattt gttttttgtac   6180
ccattaacca tccccacctc cccctgcaac cgtcagtacc cttaccagcc actggtaacc   6240
attcttctac tctgtatgcc catgaggtca attgatttta tttttagatc ccataaattc   6300
gacgcggccg                                                          6310
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<210> 6697
<211> 1017
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (32)...(573)
<223> similar to gi434977 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6697
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cctggccgct cacccgtgga aagtacaggt cctgacagct gggtccctga tgggcctggg   120
tgacattatc tcacagcagc tggtggagag gcggggtctg caggaacacc agagaggccg   180
gactctgacc atggtgtccc tgggctgtgg ctttgtgggc cctgtggtag gaggctggta   240
caaggttttg gatcggttca tccctggcac caccaaagtg gatgcactga agaagatgtt   300
gttggatcag ggggctttg ccccgtgttt tctaggctgc tttctcccac tggtaggggc   360
acttaatgga ctgtcagccc aggacaactg ggccaaacta cagcgggtga gctggcagg   420
attatcctga tgcccttatc accaactact atctatggcc tgctgtgcag ttagccaact   480
tctacctggt cccccttcat tacaggttgg ccgttgtcca atgtgtgtct gttatctgga   540
actcctacct gtcctggaag gcacatcggg ctctaagcct gcctcactcc atcgtttcca   600
ccttgcaagt gatgcagctt gacccctgga acgggtcaga caaccctcct caaaagtggg   660
cataccagtt tcccacgggg gttgggttgc cggtcaggag cttaagagga ctagcaccct   720
gcaaatgccc ctcttcactc taaaatgtac actgactgct ttagagccct tgataatagt   780
cttaattccc accacatact aaggcactcc ataaatatct gttgaacctt catgacctta   840
tcaactttta cacccaatat cccagcaaat gccactcatc cccactcttc atagacacat   900
ttgttactct aaccctgcct aggcttcttg tagctccagc tctttagaga ctcccggaac   960
cctttatatg gtgcctcagt aaatatgtta ttaaatatgt aatccggaaa aaaaaaa   1017

<210> 6698
<211> 1572
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1271)...(419)
<223> similar to gi4406663 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6698
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gaggctgggc aggtcctgag tgggccaggc taggccaaga gagaaggcac gaggccctgg   180
gcgccccagt cccagggcag aggccaggcc tgcctggaga aggcagcacg gggtcagctc   240
tcagggtca ggctgggttc cacgccgccg cagctctgct cataagacgg tggggcctca   300

```
tagggggtagc cccaagaact gtactctgga ggaagaatca aggtgctggt agtgggcact      360
ggcccccccgg agccctctgc aaagtagggg acagtggcac ctgttgaaat gcacaaggga      420
gggtgcagcg ggtgtgaggc agggctgcca tcctgagggc agggctccgg cgcaccaggc      480
acagaactca aggtggccag caggggctgc cgctgcgaat ggctcttggt ggagaggaag      540
acggggtcca agaagtgggg gccgccagcc gcagcctcag cctcagcctc ctcctggggt      600
ggtgcggaag gcaccaccag gggtgggggcc ccaggaggca gccccaggcc tggccggggg      660
ctcactgggg catggttcac agcaatattg ccaatgaaga ccgggagggt cacagtagct      720
tccggcgcct tcagagagac ctgtaagtag tagtcgatgt ggatgaggct gcagcccggc      780
agggccgact ggggcaaggc aggcaccagg atctgctcgt gccactgcgc ccgccgccag      840
gccttgacgc ccgcaccctc cacctccgca atggtccgta cgtcgtggat ccagcgcttg      900
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tggttctcaa cgtcggcatg cagctgcagt gcctgcccca ccacatagcc gcggagatca     1020
gtgctggctg tgaggaccac gctgcccgtc ttcaccagct tgtaggagaa cttcttggtg     1080
gcagaggcca cgttgggttg ctcaatgtct gggatgctgt tcaggttcaa ggggctcaag     1140
atatagaaca cgaggctgca cttgtgatcc ttggaaaacc gtggcgtgtg gatggcggcc     1200
ctcacctggt gcacgatctt cccgaaagga ccctcaaagg acgtgggtgc agtggcagga     1260
agcaggaact ggaaggggaa gctgtgctct ccagcgggca ggctcccctt gtctgccagc     1320
gacagggaac tgttgaagta accctcctcc actacccacg ctgtgtcatt agccttgttg     1380
gagaccccgc aggaacctat gcaggtcacc cggatggctc ggaacggcag cggtgccccc     1440
aggcgcacgc gcacggtccc agccaacggc tccccggggc tgtagacgac gcggccgtgg     1500
ctcaggctga tctcgaagag ctgcactcgc cccatgccgc gctcaccggc cagccgcagc     1560
gcctcgtccg aa                                                         1572
```

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          <400> 6699
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gtatgcagag gagatggaga actgtcatgg gaacattctg atggtgatat cttccggcaa      120
cctgccaaca gagaagcaag acattcttac caccgctctc actatgatcc tccaccaagc      180
cgacaggctg gaggtctgtc ccgctttcct ggggccagaa gtcaccgggg agctcttatg      240
gattcccagc aagcatcagg aaccattgtg caaattgtca tcaataacaa acacaagcat      300
ggacaagtgt gtgtttccaa tggaaagacc tattctcatg gcgagtcctg gcacccaaac      360
ctccgggcat ttggcattgt ggagtgtgtg ctatgtactt gtaatgtcac caagcaagag      420
tgtaagaaaa tccactgccc caatcgatac ccctgcaagt atcctcaaaa aatagacgga      480
aaatgctgca aggtgtgtcc aggtaaaaag caaaagaaga acttccaggc caaagctttg      540
acaataaagg ctacttctgc ggggaagaaa cgatgcctgt gtatgagtct gtattcatgg      600
aggatgggga gacaaccaga aaaatagcac tggagactga gagaccacct caggtagagg      660
tccacgtttg gactattcga aagggcattc tccagcactt ccatattgag aagatctcca      720
agaggatgtt tgaggagctt cctcacttca agctggtgac cagaacaacc ctgagccagt      780
ggaagatctt caccgaagga gaagctcaga tcagccagat gtgttcaagt cgtgtatgca      840
gaacagagct tgaagattta gtcaaggttt tgtacctgga gagatctgaa aagggccact      900
```

```
gttaggcaag acagacagta ttggataggg taaagcaaga aaactcaagc tgcagctgga        960
ctgcaggctt attttgctta agtcaacagt gccctaaaac tccaaactca aatgcagtca       1020
attattcacg ccatgcacag cataatttgc tcctttgtgt ggagtggtgt gtcagccctt       1080
gaacatctcc tccaaagaga ctagaagagt cttaaattat atgtgggagg aggagggata       1140
gaacatcaca acactgctct agtttcttgg agaatcacat ttctttacag gttaaagaca       1200
aacaagaccc cagggttttt atctagaaag ttattcaagt gaaagaaaga gaagggaatt       1260
gcttagtagg agttctgcag tatagaacaa ttacttgtat gaaattatac ctttgaattt       1320
tagaatgtca tgtgttcttt taaaaaaatt agctccccat tcccccactc cagataaagc       1380
ttcagtta                                                                1388
```

```
<400> 6700
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ccacagaaaa ttgctatgta gggacaaaaa attttggat ggctctgtaa agaaacatgg        120
taggttttca gaaatgagtt gtgcaggaat gtggttaatg aaaagcagaa agggttaagg     .  180
gaagagaaag gaagccaagg agtgtggtat gtacatcaaa tgattacttt ttaagcccct        240
ctaggctctg ataacccttt ccccaagtca gatcccaaca aaattcatca gtaactgaag        300
tgattgtgct aacagataca. taaagactac cggagaaaag tgggttgaga tgggctcaga        360
cttattgtta ggacaactct gggagtcttg tgtctgtgcc aaccacgtat ccgtgggcta        420
cctggagatg agttctaaca accagcccag aacccaaagc tgctctccaa cacctttgtt        480
tagtagggaa aacccgtagt ggggacaaga gaggaagctg tgcccttccc ccaaccaccg        540
tttcatcttc tgctcgctga ccttgatgtg acttgagagc tctccttgct tcggctgtgc        600
agtccagaag ccagaacttc ctctaggaaa cttttcgtgt tgtgcactgt ggtgcctccc        660
aggacaatcc tcactccagg agtggtgcgg ttcaggttat aaactgttag agcctcttca        720
taggtggctc ctccaattac aaacacaatg atatcctgag gtctgtctct gagtgtgctg        780
gggcctaaat aaggatatag gttttcctta agccttcctt tgatgagatg atccagggtt        840
tcatgtagga aaggttgatg ctgtgtatat acattttcta ctcccttcag tcctttgagg        900
aattgtttgg tgatagccac agcatctttg gggctgaaga ggtcacttcc tctgactcgt        960
ttaccaccat attcaacaac tgcagacacg agctttcgat acttctcaga aacacctttta      1020
ttcctgaggt ccatcattag tcctggcagg ctattgctgc tgtgtcgctc ataatgtaaa      1080
gcataaagca tcaccaggcg ggcagcatca aactctgtca ctttgggggtt ctgcagaagc      1140
ctttttatat tctggagagc actagaatgg tcattttgac aggccagttc ttgctcaacc      1200
tctgaaacct ccagcagatt ccgttcactg accaatcgag acagttctcc aaccactgtc      1260
acatgctttg aaacagtccc agacattttc ttgaactgtg gataattctc aacaaacgcc  .   1320
ttcatgtctg ctattgattc tagttttttgc tgttcttttg gtttcttctt ctgaaaatct      1380
tccatgagat tctttatatt gctaccaatc tcagcaaagt tcaggtacat attattagca      1440
tagaattcat cattttcagc agatgagacc cacttctctt aagtctttac tgattcccgg      1500
cactctggaa agatcaatcc gattgttgtt tatgcctagt agttcgtgga ccatggcctg      1560
atatgtccac tggtttagca atggggtgat ggcatcatcc aagcgatcta aaataaggag      1620
caatggagga acctctgtcc gacggaattt caaacagttc atattcttta gttatcactt      1680
```
```
                                        5364
```

```
gcttaacgca ctctgcaagt ctctttgctg cctctgatga gagctgataa cgaatcatgg   1740
gacacttctt cagagataaa aggagagctg taagcccttg agttgttcct agatagctgg   1800
gctggatccc aatttcgacc ctggcagcaa ccccaaatta ttgagggaaa acaaatgtgg   1860
gttcacagca atgtaatcac cataaaattc ctgaaacctc agccacaact tcctgttcat   1920
cagcttcagc caatgacttc acgtcactct tgctgatcac attactgaaa taaatgaaat   1980
atatagtgta tttgggtctt cggagctcct gaataatata atccacattc tcctttgtag   2040
gtcgaagaaa acaaattgcc ttcaggtgtt tcatgatctc tcgattttga gaatcaatgc   2100
gttcaaagag gtacacttcc ttctgtagaa tctccgattg tgtgtatacc atactcacta   2160
tgccagtcgt ctctttatcc atgagaagta ctttcatacc aggcccgctg tcctctatca   2220
ttttggaaat gtactgcttc acagcaaaaa ccacgttcat ggcggcgaat tgacaagtac   2280
cctacagccc ttcccgcccc cttttctggc taaattaacc cccagtctgt tggccgggtc   2340
tcagctgctt cctcccagcc gggattcggc ttccgggagt ccgggcagcc acggtgctgg   2400
gagttgtagt tccgctggag tgtacagggg accaagccta ccccgggggat ggaaaaatcc   2460
ggctgagacg gcctgggccg ctgccacgcg cgggcgttat tctccaccca cctgcggcct   2520
gaagatgcct gaggcccgga ctctcagacc cctattgccc tttggtgctg gaggcccagc   2580
ggcagcctga agcccaagag agtggagcct cgcgaaatga ggaacctggc acaaggtttg   2640
cttggaagca ggaacgacgg agtgtggcta cgtgccctat ttgccattaa cgctttcttg   2700
catggcagtg agagatgagg gcaagggagg tggcataatg ctcccggccg cttgggactc   2760
ggagagacgg catttaataa atcacacgcg gtatttgcga aacagtggtc gagattcgtc   2820
ttcccgggtt cattgcgtca tta                                          2843
```

```
<400> 6701
ccaagccgcg gtcccgggcc ggcacccagg atgggcgagg tggaggcccc gggccgcttg     60
tggctcgaga gccccctgg gggagcgccc cccatcttcc tgccctcgga cgggcaagcc    120
ctggtcctgg gcaggggacc cctgacccag gttacggacc ggaagtgctc cagaactcaa    180
gtggagctgg tcgcagatcc tgagacccgg acagtggcag tgaaacagct gggagttaac    240
ccctcaacta ccgggaccca ggagttgaag ccggggttgg agggctctct gggggtgggg    300
gacacactgt atttggtcaa tggcctccac ccactgaccc tgcgctggga agagacccgc    360
acaccagaat cccagccaga tactccgcct ggcacccctc tggtgtccca agatgagaag    420
agagatgctg agctgccgaa gaagcgtatg cggaagtcaa accccggctg ggagaacttg    480
gagaagttgc tagtgttcac cgcagctggg gtgaaacccc agggcaaggt ggctggcttt    540
gatctggacg ggacgctcat caccacacgc tctgggaagg tctttcccac tggccccagt    600
gactggagga tcttgtaccc agagattccc cgtaagctcc gagagctgga agccgagggc    660
tacaagctgg tgatcttcac caaccagatg agcatcgggc gcgggaagct gccagccgag    720
gagttcaagg ccaaggtgga ggctgtggtg gagaagctgg gggtccccctt ccaggtgctg    780
gtggccacgc acgcaggctt gtaccggaag ccggtgacgg gcatgtggga ccatctgcag    840
gagcaggcca acgacggcac gcccatatcc atcggggaca gcatctttgt gggagacgca    900
gccggacgcc cggccaactg ggccccgggg cggaagaaga aagacttctc ctgcgccgat    960
cgcctgtttg ccctcaacct tggcctgccc ttcgccacgc ctgaggagtt ctttctcaag   1020
```

```
tggccagcag ccggcttcga gctcccagcc tttgatccga ggactgtctc ccgctcaggg    1080
cctctctgcc tccccgagtc cagggccctc ctgagcgcca gcccggaggt ggttgtcgca    1140
gtgggattcc ctggggccgg gaagtccacc tttctcaaga agcacctcgt gtcggccgga    1200
tatgtccacg tgaacaggga cacgctaggc tcctggcagc gctgtgtgac cacgtgtgag    1260
acagccctga agcaagggaa acgggtcgcc atcgacaaca acaaacccag acgccgcgag    1320
ccgcgccagg tacgtcccag tgtgcccgag ccgcgggcgt cccctgccgc tgcttccttt    1380
ttcaccgcca ctctggagca ggcgcgccac aacaaccggt ttcgagagat gacggactcc    1440
tctcatatcc ccgtgtcaga catggtcatg tatggctaca ggaagcagtt cgaggcccca    1500
acgctggctg aaggcttctc tgccatcctg gagatcccgt tccggctatg ggtggagccg    1560
aggctggggc ggctgtactg ccagttctcg cgagggctga gccccgccca gctcccctcc    1620
acaataaacg ctgtttctcc ttgaaaaaaa aacaaa                              1656
```

<210> 6702
<211> 1846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)...(1380)
<223> similar to gi4263743 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6702
```
acaggaagcc ccttccgccc tctgggcctc agtttcccca caccggggct ggtctgctcc      60
tagctctggg tgcaggacac acaggagtgg cacaggtcgg gctggggaga gccttctctc     120
ctttgtggtc caggatggcg cagaagtacc atgagtactc ccactacaag gagcaggatg     180
ggcaggggat gaagcagcgg cctccgcggg gctcccacgc gccctatctc ctggtcttcc     240
aagccatctt ctacagcttc ttccatctga gcttcgcctg cgcccagctg cccatgattt     300
atttcctgaa ccactacctg tatgacctga accacacgct gtacaatgtg cagagctgcg     360
gcaccaacag ccacgggatc ctcagcggct tcaacaagac ggttctgcgg acgctcccgc     420
ggagcggaaa cctcattgtg gtggagagcg tgctcatggc agtggccttc ctggccatgc     480
tgctggtgct gggtttgtgc ggagccgctt accggcccac ggaggagatc gatctgcgca     540
gcgtgggctg gggcaacatc ttccagctgc ccttcaagca cgtgcgtgac taccgcctgc     600
gccacctcgt gcctttcttt atctacagcg gcttcgaggt gctctttgcc tgcactggta     660
tcgccttggg ctatggcgtg tgctcggtgg ggctggagcg gctggcttac ctcctcgtgg     720
gcttacagcc tgggcgcctc agccgcctca ctcctggggc ctgctgggcc tgtggctgcc     780
acgccccgtg cccctggtgg ccggagcagg ggtgcacctg ctgctcacct tcatcctctt     840
tttcttgggc ccctgtgcct cgggtcctgc aacacagctg gatcctctat gtggcagctg     900
cccttggggg tgtgggcagt gccctgaaca agactggact cagcacactc ctgggaatct     960
tgtacgaaga caaggagaga caggacttca tcttcaccat ctaccactgg tggcaggctg    1020
tggccatctt caccgtgtac ctgggctcga gcctgcacat gaaggctaag ctggaaggtg    1080
ctgctggtga cgctggtggc ggccgcggtc tcctacctgc ggatggagca gaagctgcgc    1140
cggggcgtgg ccccgcgcca gccccgcaat cccgcggccc cagcacaagg tgcgcggctt    1200
accgctactt gcaggcgcac aactcggacg agagcgaccc ggagggcgag catgcggacg    1260
ccgcgcagga ggaggcgccg cccgcagggc ccaggcctgg gccccgagcc cgctggactc    1320
ggccgccggc cgtgcccgta cgaacaggcg caggggggag accggcccgg aggagcagtg    1380
aaggggccgc ctggtccccg ggactcagcc tcccttcttc gccggcctca gtttaccacc    1440
gtctgagggt cggggggggac cccctccga ggtcccgcgc ttgtcttcaa aggccccttg    1500
tctccccttc cccgacgttg gggacgcccc ttcccagagc ccaggtcacc ttccgggggtt    1560
```

```
ccgcagcccc cttccaaggg cggagtggag ccttgggaac ccctcggcca agcacagggg   1620
ttcgaaaata cagctgaaac cccgcgggcc cttagcacgc gccccagcgc cggagcacgg   1680
tcagggtctt cttgcgaccc ggcccgctcc agatccccac agctctcggc cgcggacccg   1740
ggccgcgtgt gagcgcactt tgcacctcct atccccaggg tccgccgaga gccacgattt   1800
tttacagaaa atgagcaata aagagatttt gtactgtcaa aaaaaa                   1846
```

          <210> 6703
          <211> 3560
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (231)...(846)
          <223> similar to gi4929687 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters

          <400> 6703
```
tcacaggaag ccggaggtcg ctctgatccc gaatctccca caggcgtgaa cctgctctgc     60
tgtgtatctt tgcggggtgg cctgcgctga ggcctgccgc gcgcggtgag tccgcgcaga    120
cctgaccctg cgtctcgcag ctcggttgag gccgccgccg ccttctcggg atgccgcggc    180
cggggtccgc gcagcgctgg gcggccgtcg cgggccgttg ggggtgcagg ctgctcgcac    240
tgctgctact ggtgcctgga cccggcggcg cctctgagat caccttcgag cttcctgaca    300
acgccaagca gtgcttctac gaggacatcg ctcagggcac caagtgcacc ctggagttcc    360
aggtgattac tggtggtcac tatgatgtag attgtcgatt agaagatcct gatggtaaag    420
tgttatacaa agagatgaag aaacagtatg atagtttttac cttcacagcc tccaaaaatg    480
ggacatacaa attttgcttc agcaatgaaa ttttctactt tcacacataa aactgtatat    540
tttgattttc aagttggaga agacccacct ttgtttccta gtgagaaccg agtcagtgct    600
cttacccaga tggaatctgc ctgtgtttca attcacgaag ctctgaagtc tgtcatcgat    660
tatcagactc atttccgttt aagagaagct caaggccgaa gccgagcaga ggatctaaat    720
acaagagtgg cctattggtc agtaggagaa gccctcattc ttctggtggt tagcataggg    780
caggtatttc ttttgaaaag ctttttctca gataaaagaa ccaccacaac tcgtgttgga    840
tcataactac gttttgagaa ttgatgcacc attgccactg taatattgct gtcctctaat    900
taattttagg tactgaagaa cttaatattg gcaacatttt taaatcctta ctcatacact    960
tgttgggagg gatgtacaat gcatattccc aaactgtgga aaggacacct ttttttattt   1020
gtaaaggtgg aaaaactttg gaactcattt tgggctattc atgttaaata ttcaacacca   1080
atgatctact ctgttcgcag ttgtttatat ctactcttcg cacactaaac tttggtattt   1140
tgattccttt taaccattta agactacttt tcttataggt agttgatatt ttaaaaacct   1200
tagatttaat gtctacatgt gttagggagg aagaaaattg ccttttaatt gttaataaga   1260
aaaccaaatg tgatgaactg tagcccaagc cctattctgc actgttcagt tttatggagg   1320
aaaaataaat ctaccatagg aatgttagtt aatattgata tatcatggta aaattgattt   1380
ctcactagct tagaaaatgt cagacttttg tttttggggt ttataattta aaccagctat   1440
gctatttttt cataaaggca tttgtagtac acagaaaaca gtagtttcag tagtgtaaaa   1500
gagtttatac aggccttaaa tatcagactt tgtaacaggt agaaatatta cagaataatt   1560
taagacacta caatgggggc aaatgaaata ggaaaatttt tagtgagtta cccgtactca   1620
ttacattttc agtgctttta caaggaaaaa aggtgatatg tttaatttta acattttaat   1680
tggctagctc ttgcccttat atgactttaa tgtctgtgag tcattcccag cttaaattaa   1740
caattgttag tattagtctc acacataagt gccatacatt ttatcctcat ggatgtgatg   1800
cactgaaaag ttagttgctc tccttttttc tttttttgt cgtgcatatt ttatttctgt   1860
agtttctggt tagctaccct aaagtgattt aaaaatttag aatgctttgt gtttcctatt   1920
```

```
tggtaatctt cattgacttt tctttagtta atgagtatta aatagtgcat attctgtaga    1980
ctatagggtt tacattgtgt tgcatcttat aacttgtata gattgagctg attgaaataa    2040
gattttgttc caagtattat ctgatagaat acaagatgat tcaaaattat atagatattt    2100
aaagcttttc tgctgttttt ttttttttta aatggcaacg gttttttttgc cgggcctttt    2160
ttccttaccc aaaagggagg agttttgaac aagacaaaac tgtcatattg taaaaacttt    2220
ggtatgggat cccttaaaat actgattgga tacccttcct agtcacttac caatactgac    2280
tagaagttaa ctcttaattc taagctatct taaaatgcat atatatactt cttgcatgga    2340
agagcaaaac aaattcaagt tgtcatgcct gataatttca gatgccaccg tatagcaaag    2400
ggtgaacatg ttttcaaccc tttaactttt tacggtgttt gaagaccagc tactccttaa    2460
tatttatcaa tggattaaga agtttaagat tttgcagatt tatcaatttg ggttttttgta    2520
ctgaagttgt cttgcggctt tgcaagtgtc cctttatatt taaatttgaa agttgtaagc    2580
actgatgtta atgtgattga tcagcatggg catatgtaaa atgtcctttt ctggttgcct    2640
ctctatgcta ttgtgttcag atacttacac cataattaaa cagtaagtta tagacttgct    2700
gagtttggca tagatagtgc actcatttaa tctgtgcctc tcaaaacttc agaatattag    2760
catattacca caaataattt ttggtgaaac tattgagata ttaaaatttt tgaaatcact    2820
actgttacct gttatagaaa atagtgttgg cttagtctag tctctgtgta actggttaca    2880
ttttgatggt tgtctatact caactggata tgtgtatgta aattagaaaa tacataccta    2940
tccagacata aatgctaagt aacattttt tcttcctcca actacataat ttgtagctca    3000
tcatttttcc ttaatccttt cctaacttgt tgcagcagtt tgaatttccc agatatttat    3060
gtttgaacat aatggctcag aatacatatt tgaacatcat agttgtatat atttttaaag    3120
tagaataaat aatggaaagc aacttgatat acaagtttat actaaaattt caactgtgtg    3180
aagatacatt ttaaggcatt actttgctaa taatctacac attctttttt ctattaaata    3240
aacaaatggt ttgtggttca cagctttcat ccaagcttgg tgataatcaa ttttgaaaat    3300
acagtggact gaaaagcaaa tttattcttt cgaagatttc atttaaatct ctgtactatg    3360
cattttgtt tcagtttgta aatgtgtaac atttatagtt aaataggaca aagcaggccc    3420
tatgactatt gttttcaaaa aattaatata taaataattc agagggtttt ttcatttact    3480
tttgaaaaga aatttcttta acaggattgc acctatcaat ttcttgtaga ataaaaaaaa    3540
atctttcaac aaaaaaaaaa                                                3560




          <210> 6704
          <211> 1461
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (523)...(1237)
          <223> similar to gi4102184 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters




          <400> 6704
ctcaacaggg cgtgtttttg tgtcactggt gtccctgagc tggaggtgat ctgtctgtcg     60
gggctgcagc aggcggaatg gccccgtctg ggattgagcc acctgggagc tgtcggcggg    120
ggttggggcg gccttcccac ctccacctgg gtttctcttc acactcagga ggtagatctg    180
gcctcggaag tggccttaga ggtggtgcgg acagcagagc ctggcgtgtg gttggaggct    240
caggccccgg tggccctggt ggctcagcct gagcccctgc cggccacagc tggtgtgaag    300
agggagagcg tgggcatgga ggtggcagtg ctgactgatg acccgctgcc cgttgtggac    360
cagcagcagg tgctggcccg tctgcagctg ttggagcagc aggttgtggg tggagagcag    420
gccaagaaca aggacctgaa ggagaagcac aagcggcgca agcgctacgc agacgagcgc    480
aggaagcagc tggtggctgc cctgcagaac tcggatgagg acagcgggga ctgggtgctg    540
```

```
cttaacgtct acgactccat ccaggaggaa gtgcgggcca agagcaagct gctggagaag        600
atgcagagga agcttcgggc agcagaggtg gagatcaaag atctgcagtc cgagtttcag        660
ctggagaaga tcgattactt ggccaccatc cgccggcagg agcgtgactc catgctcttg        720
cagcagctcc tggagcaggt gcagcccctg attcgcaggg actgtaacta cagcaacctg        780
gagaagattc tgcgtgagtc ctgctgggac gaagataacg gcttctggaa gatcccacat        840
cccgtcatca caaaaaccag cctcccagta gcagtttcaa ctgggccaca gaacaaacca        900
gcccgcaaaa cctctgcagc agacaatggc gagccgaaca tggaggagga ccgctacagg        960
ctcatgctca gtcggagcaa cagtgaaaac attgccagca actacttccg atctaagcgg       1020
gccagccaga tcctcagcac agacgccagg aagagcctca cacatcacaa ctcgccacca       1080
ggcctcagct gcccactcag caacaactct gccatcccac ccacccaggc ccctgaaatg       1140
ccccagcccc ggcccttccg cctcgagtcc ctcgacatcc ctttcaccaa ggccaagcgt       1200
aagaaaagca aaagcaactt tggcagtgag cctctgtgag cacagctgct tgccattgcc       1260
tgccttatag gactgtagag actgccaggc cctcccaggg cagccccaac caggtctcct       1320
cccacctgcc acacagcgct ccggggcctg agggctccct cagccctggg aagatacatt       ·1380
cccttccctg ttccccagag agcccacctc tgccctgggc aggagcccct cggaggctgt       1440
atagtcctcc ttagagaggc c                                                  1461
```

<210> 6705
<211> 1476
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1177)...(389)
<223> similar to gi1488608 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6705
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ggtcgacttt gtgttttttt gttttgttgt tgttttttct ctgtccaacc atgagacatg         60
aggggcttct tggtgtcatt tccactcccc ttgccaatat ttatttggaa acatttcaaa        120
ctacagaaaa gttatgcaaa ttacatcagg aacaccacac atcccctgtg cggagatctg        180
tgctttatgt cttttgaaagt aagttgtcga gatcacagca ctccacccct ccacaccgaa        240
gcccgcagct tctcaggaaa gggcagtctt gtgtgatcag tgcatatcat cacacacagg        300
atgtctgaca ctgggcacca cgctgccatc tcagagtcca tttcaatgct ggggggtcatc        360
ggttttcagc aggttcttcc ctgggttcaa cgcgtcttcc cgccagaggg atggaatctt        420
gggtgagtgt tgaaatgcgt cagaaacaaa aacgcaaagt ggaactggag cacgtcacag        480
accttggacc agaagtggcc tgtgaggcac tggaagagac gccaccgtgc gagctgatgg        540
tcacacagct tgaggaccac aaagcccagg caagagagca cccccaaagc taagtaggta        600
gccgagggtg ttgctgccca tagtgcctgt ggggtgcgca gcgcctgccc cacagcgggc        660
accacgtgag cacccagtgc gacctcgaag ccctggggat gcagcagagc gaggccataa        720
ctggccaggg agacgcactc aagagagagg aacagccagg ggccgccagc cgcggtctag        780
gtagaggcac caggccacgg gccatgcaaa gatgggcagt gtgagccact ggtccagcac        840
cgcggcacgg cgccactgcg tccacaggcg cagccactgc acggggccat agagcagggc        900
catggctgcg aacacgtcct tcaggtagcg gggacccagc cccatcgcgc cgcccctgtg        960
cagccacgac agccccagca gcgtgtaggc catgttcacg agtgagttga acggcatggc       1020
caggaaggca gggaggccgg ccacgggcgc ctcggcgtag tgctcatagc ccacttgcac       1080
ggaaacactg tcgaaaatgc ccgtgaacac agccacggca cagaggccac cggccacggc       1140
cacgtgcacg aaggcctgcc cccactctgg attcatctgg aaccggcggc gtgacctggg       1200
gcagggagct tcagagagca gccttcaata cgcagcctct gcagaacact ctgggcctcc       1260
```
```

```
cggctgagcc agcagaaaga agccccgtga tttcgtgatt tccgaggcag atgctgcgac      1320
cttgccccga aggaaggcag gagtcctgct gattggctgg cgccagcgga ggaacgttct      1380
gccttttttca gtattggcgc gaaaaggcca gctatcacca tacgggtatt tcgcctcact      1440
tcgcctcgct gggggaaatt caaatctccg aaaagg                                1476
```

```
        <400> 6706
catttaaaca gtgtgttttc gagtaagctg gtaagtggta taataggaat agtagaagaa        60
tatgccatag ctatggctca agaataggaa taagaaaaat gtgcagtaga cgctgtttgt       120
ccgacgatga tgaaagtgtg cacggccggc tgtcctccga ttgaggggcc ttgtcaaggc       180
ctcagaggca gcgaggtcac agcctggtgg agggtctggg tgtgcgctgt gtccatctgc       240
acctcacaga caccagtcat ggggggatga aaccgggcca agaacacatg tgtgcacagg       300
cttgtgtgtg cctgcatgtg tgggatgcgt gtaggctgtg gcgggggtgg agatgaggga       360
taggacagga aaatggccca tccaacccca catccctggc cgggcgtgtc caggtccctt       420
tggggcgagg gtttggctgc cccagacgtg acagggactt ggctctgagg gtcaggacct       480
ggctgggaac acccattgaa gagggaacag aaaccaggcc ctgggacgct agagacccca       540
agagctacct ggctgggtct atggtcaggg ctgtagtgga ggaaggtgtc aggatggcca       600
ttgtctcaac tcctgtgggc ggcacagccc caggctgggc ctctgggagg agggtgggat       660
ggatgggaga tcagagcccc tggcgcctgg acaagggtt ggcctggatg tggggccccca      720
ggtgggcagg gcctgggagc cgccacagta tgtgacaaca gaccccaccc tggaccccccg      780
tgctgggggc tgggtcccac cgctctcctc tccacgtctc tcttggcgat gcccagcttg       840
ggctgggcgc agggaagggc aaacgttgct gagccgccga ggggctgggt cttcgccttt       900
atttctggtg cacgtctaga ggggcccggg cagaggccac ccacggtccc tgaagtaggg      ·960
cctcagctcc tccaggctga gcggagggaa gtaggctccg atcctcttcc gcacccacca      1020
cttgccctcg gcggcgtgcc tgcccccagg acggctgaac ttgtacctgt agtgctctcc      1080
tcggacccac ctgggcgggg gcctgccccgc gaaggggttg tgtgccagca gggacaaggc      1140
ctcggcgtcg ctggccagga gcttgccagc caggtggatg atccagtcgt tgtgctcgta      1200
ggtctggctt gcacttgaac tcgtagtcct cccacatggc atcggggggcg ctggcgttgg      1260
agctggctgt gccctgcagg atcacctccg cccgctcctt ggtgatgctt ccgaaggccc      1320
cgtaagtgtt gacgatgtga agagagttga agtgggtgtt catgacctgc ctggagctca      1380
gcaagttgag gaccacgggc acgctgagcc aggccagcag gacgcccagc gagacgttgg      1440
ctgcacgccg caccacggag ccgaatctgg gctcgggccg ggcccctcgg atgtccctct      1500
gcatctgcag aactcggtcc ttcaggctgc ctggcccaga ggggaacaag aatcccaggg      1560
tggcgtcatc aaagcaggcc aggctgggca ccatagtcag ccagttcagg aagctgaggt      1620
tcccgctgac gatgaggacg gcctggaaca ggatctgcag caccccgtgg atgatgcacg      1680
cccgccggcc gaggaagagg aagaagggca ccaggagctc gatgaagtgg ttgctgagcg      1740
tctcgaagcg atggaaccac cagggtgagt ggtgcaggta gtacgccaca ggattgggca      1800
tcggctgggt ctcatagtgg aagtccatgc aggtgaggtc tcgccagcac cggtcccccc      1860
ggatcttgat caggcctgct ccaagcatga tcctgaagat cagccaccgg aagccccaca      1920
ggacaatccg ggatgtgggg gtatgctggg gcagccttga cagcgtccac agagggcaca      1980
```

```
ggaagatccc caggaacccc gtctccagaa gctgggactc ccatccgaaa gagtaccaga      2040
catggcccac attaaccagg gacatgtaga ggg                                    2073




          <210> 6707
          <211> 3070
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (397)...(783)
          <223> similar to gi4679024 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters




          <400> 6707
      ggaattcgcc ggatctggat cctgagtgcc gggagctcct gctggacttc gccaacagca      60
      gcgcagagct gacagggtgt ctggtgcgca gcgcccggcc cgtgcgcctc tgtcagacct     120
      gctacccct cttccaacag gtcgtcagca agatggacaa catcagccga gccgcgggga      180
      atacttcaga gagtcagagt tgtgccagaa gtctcttaat ggcagataga atgcaaatag      240
      ttgtgattct ctcagaattt tttaatacca catggcagga ggcaaattgt gcaaattgtt      300
      taacaaacaa cagtgaagaa ttatcaaaca gcacagtata tttccttaat ctatttaatc      360
      acaccctgac ctgctttgaa cataaccttc aggggaatgc acatagtctt ttacagacaa      420
      aaaaattatt cagaagtatg caaaaaactg ccgtgaagca tacaaaactc tgagtagtct      480
      gtacagtgaa atgcaaaaaa tgaatgaact tgagaataag gctgaacctg aacacattt      540
      atgcattgat gtggaagatg caatgaacat cactcgaaaa ctatggagtc gaactttcaa      600
      ctgttcagtc ccttgcagtg acacagtgcc tgtaattgct gtttctgtgt tcattctctt      660
      tctacctgtt gtcttctacc ttagtagctt tcttcactca gagcaaaaga aacgcaaact      720
      cattctgccc aaacgtctca agtccagtac cagttttgca aatattcagg aaaattcaaa      780
      ctgagaccta caaaatggag aattgacata tcacgtgaat gaatggtgga agacacaact      840
      tggtttcaga aagaagataa actgtgattt gacaagtcaa gctcttaaga aatacaagga      900
      cttcagatcc attttaaat aagaatttc gatttttctt tccttttcca cttctttcta      960
      acagatttgg atatttttaa tttccaggca tagcaatgtt atctatttta atgtgtattt     1020
      gtcacaataa cagaacatgc aagaacaatc attattttat tttataggca tttgattact     1080
      attctagact tctggtatct tcttactaac ataaatatct caagtagaaa agttttgaa      1140
      aactaacatt taaaaattaa tcagttacag taaagacttt gaaaagaaa tgtacttgtt     1200
      aggaagtagc ttaattaccc cccattgcag tattattgtt atatatatag ttaatatgtt     1260
      gtacatcaca ataatatata attcagtctc tagtttccct agagtcattt ttgaaaccac     1320
      tgattgcaaa cctccctgac aatttttaaa agtagtaagc cacattacat ttatctttgt     1380
      aaaaagattt atggtaactg gtttcttact tgactttat aaatagtatt ttacatctta     1440
      tttttgcctt tatttcataa gtaatttaaa aatcactgga ttgctttatt atattcaggg     1500
      caatatggat tattttata ccaaggattt gcatcgtgaa ttacattaag ttatttggca     1560
      atttataatt tattactact ttaaatcaaa tgtagcatta tcacactgta tttaaattgt     1620
      cattttttaa aggaatattt tcttcttaag atatatagag gattttggag aagagagaca     1680
      ggagggggtaa aaccagctta aggttcagcg agcagaaagg gacctgagag gatgctcact     1740
      gtaagactgt tggacagtgg tgtgtattga ggggatgaat cggaacgata gtctcatgca     1800
      gaaaatagtg agattaagat catccttatt gtttctaaat tatttcaatc agatgaaagt     1860
      gatacgattg aaatgaaatc acatagttcg tgctcagaaa ttctatttg gtatgtttgt     1920
      attagccttt agaaaaaaca ctccgtttca gaattgttca cagttttatt tcttaggttt     1980
      ttagagttca ggatttcatt tattaatttc ttcttgcttt tttggtggaa ataggctttg     2040
      ttgtaaacat taagaatata aaatctcctc tatatagaaa caagaatttt gttaaaaaga     2100
```

5371

```
gaatttgaat cccttcctat actataaaat gctctatagg gagacaaagt gtttcttttt    2160
tcttttatgt ttactgttta tgtggagtga aatataaggc tcttggatgt ataacatact    2220
caaaagctgt tacactttct ctgatctgct gtgatccact gaaaatgtgc tggggtttgt    2280
tctgctgtca ctgtttatgc tgctggaact tagcactgtc ttgatttgaa gcatatgatt    2340
gagagccatt tgaagcaatc ttcattaatg cagataaaac aagtttacat gtgcagagtt    2400
agaaaatgac atgttcaatt ctgtaagtgg tgactttttg agcacctttc agtattatgt    2460
atttgtaaaa accattgttt ttggatataa agctaataag cactttaaaa aggaaaaggc    2520
agcctttact attttttctg gttgagtcat tgctctttag acctagcatc agcaatagat    2580
ttcaaagata agtattaagc gctaccctaa agtgtgtaag ttttttcattt tgtcatattg    2640
aaaaatgatt tgcatagtac tgaatgctga cacacagctt atatgtattt acaagaatat    2700
ctttaagtgt tttttttgaca cattaaaata aaggaaataa ggaaattgta agctttattt    2760
ggattttttaa atacatttt aaaatttcag atgtaattta acatcacatt tgttttttcag    2820
gtattgaggt ttaagatgcc tactttttat gaggtaccat cagctgggac acagtgtctc    2880
atacctgtat ttgcagcact ttgggaggct gaagcagatc gctggagctt atgagttcga    2940
gaccagcctg gacaacatag tgaaacactg tctctgcaaa aaatacaaaa attagctggg    3000
tatggtggta agtgcctgta gtcctagcta cttgggaggc tgagatggga ggatgtcttg    3060
agcccgggag                                                           3070
```

```
          <400> 6708
tctagcctgg atgacagagc aagactccat ctcattaaat aaataaataa ataaatattc      60
aacaacttaa gaaatggggt aagtagttct tatctgttgt ttgcttaaga gtatgagaat     120
catcgatcct catgctattg ctgatctgaa ttgctttttaa ctttttctttt cagattaaga   180
atgacccaaa ataaattaaa gctttgttcc aaagccaatg tgtatactga agtgcctgat     240
ggaggatggg gctgggcggt agctgtttca tttttttcttcg ttgaagtctt cacctacggc  300
atcatcaaga catttggtgt cttctttaat gacttaatgg acagttttaa tgaatccaat     360
agcaggatct catggataat ctcaatctgt gtgtttgtct taacatttttc agctcccctc   420
gccacagtcc tgagcaatcg tttcggacac cgtctggtag tgatgttggg ggggctactt     480
gtcagcaccg ggatggtggc cgcctccttc tcacaagagg tttctcatat gtacgtcgcc     540
atcggcatca tctctggtct gggatactgc tttagttttc tcccaactgt aaccatccta     600
tcacaatatt ttggcaaaag acgttccata gtcactgcag ttgcttccac aggagaatgt     660
ttcgctgtgt ttgctttcgc accagcaatc atggctctga aggagcgcat tggctggaga.   720
tacagcctcc tcttcgtggg cctactacag ttaaacattg tcatcttcgg agcactgctc     780
agacccatct ttatcagagg accagcgtca ccgaaaatag tcatccagga aaatcggaaa     840
gaagcgcagt atatgcttga aaatgagaaa acacgaacct caatagactc cattgactca     900
ggagtagaac taactacctc acctaaaaat gtgcctactc acactaacct ggaactggag     960
ccgaaggccg acatgcagca ggtcctggtg aagaccagcc ccaggccaag cgaaaagaaa    1020
gccccgctat tagacttctc catttttgaaa gagaaaagtt ttatttgtta tgcattatttt  1080
ggtctctttg caacactggg attctttgca ccttccttgt acatcattcc tctgggcatt    1140
agtctgggca ttgaccagga ccgcgctgct ttttttattat ctacgatggc cattgcagaa  1200
```

```
gttttcggaa ggatcggagc tggttttgtc ctcaacaggg agcccattcg taagatttac   1260
attgagctca tctgcgtcat cttattgact gtgtctctgt ttgcctttac ttttgctact   1320
gaattctggg gtctaatgtc atgcagcata ttttttgggt ttatggttgg aacaatagga   1380
gggactcaca ttccactgct tgctgaggat gatgtcgtgg gcattgcaga agatgtcttc   1440
tgcagctggg gtctacatct tcattcagag catagcagga ctggctggac cgccccttgc   1500
aggtttgttg gtggaccaaa gtaagatcta cagcagggcc ttctactcct gcgcagctgg   1560
catggccctg gctgctgtgt gcctcgccct ggtgagaccg tgtaagatgg gactgtgcca   1620
gcatcatcac tcaggtgaaa caaaggtagt gagccatcgt gggaagactt tacaggacat   1680
acctgaagac tttctggaaa tggatcttgc aaaaaatgag cacagagttc acgtgcaaat   1740
ggagccggta tgacacactt tcttacaaca acagccactg tgttggctgg agagggatgg   1800
ggtgggccca acggggacac aaggaggcag aggagctaac ccctctactc cactttcaaa   1860
actacatttt aaagggaatg tgtatgtgaa gagcactacc aaacatcgct tttgttttgt   1920
tttgttttgt tttaagcttt ttttttttg cttgttttta aagccaaaac aaaaaacaac   1980
caagcactct tccatatata aatctggctg tattcagtag caatacaaga gatatgtaga   2040
aagactcttt ggttcacatt ccgatattaa aatagtgaca tgaactggca aagtggtttt   2100
aaaagctttc acgtgggata aatgatttttc tttttttctt ttctttcttc ctatggtctt   2160
gtctgaataa actactctcc tgaataaaac aacatccaac ccaggtcatt gaaatgaaat   2220
tggccagtca aaaaaaaaaa aggggggggc cctttaaaaa aaaaaaattt taaccccccgg   2280
gggggggaaa gaaatttttt tttttggggg cccccaaaaa t                       2321
```


<210> 6709
<211> 3018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (19)...(2505)
<223> similar to gi5689736 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6709
```
cagatctcca gtggcagaga gttgagagtg atccaggaaa gtgaagcagg agatgcggga    60
ctgccccggg tggaagtgat cctcgactgc tctgacaggc agaagacaga agggtgcagg   120
cttcaggcag gaaaggagtg tgtggattct ccagtggaag gagggcagtc agaagcacct   180
ccttctctgg tatcctttgc cgtctcatca gaaggcacag agcagggaga agatccacgc   240
tcggaaaaag atcacagcag acctcacaag caccgagcgc ggcatgcacg gctcaggagg   300
agtgaaagcc tgtcagaaaa acaagtgaag gaagcaaaat ctaaatgcaa aagcattgcc   360
cttcttctaa cggatgctcc caaccccaac tccaggggg tgttgatgtt taagaagcga   420
cgtcggaggg ccaggaaata caccctagtt agctacggta ctggcgagct tgagcgagag   480
gcggacgagg aggaagaagg tgacaaggag gatacatgtg aagtagcatt tcttggtgca   540
agcgaatcag aggtggatga agagttattg tctgacgttg acgacaacac acaagttgtg   600
aactttgact gggattctgg actggtggac attgaaaaga aactgaacag aggggacaag   660
atggagatgt taccagacac cacaggcaag ggagccctca tgtttgccaa gaggagggag   720
agaatggatc agatcacagc ccaaaaagaa gaggacaagg taggtggaac gccaagcaga   780
gaacaagatg ctgcccagac cgatggcctg agaaccacga cttcttacca agaaaggag   840
gaagagtcgg taagaacgca gagctctgtg agcaaaagct acatcgaggt gagtcatggt   900
cttggccatg ttccccaaca gaatggcttc agtggggcat ctgagacagc aaacatccag   960
aggatggtcc ccatgaatag aacggccaaa cccttcccag ggtctgtgaa tcagccagct  1020
acccccttct cgccaacccg aaacatgacg agtcccattg ctgactttcc tgcacctcca  1080
```
```
                              5373
```

```
ccttactctg cagtcactcc tccccctgac gccttctcca gaggggtttc aagtccgatt    1140
gctggcccag cacagccccc tccatggccc cagcctgccc cgtggtccca gccagccttt    1200
tacgattcgt ctgagcgaat agcttcccga gatgagagga tctcagtgcc agcaaaaaga    1260
acaggaatat tgcaggaggc caaaaggaga agcacgacaa aacccatgtt tactttaaa     1320
gagcccaaag taagcccaaa tcctgaactc ttgtcactcc ttcaaaattc agaaggcaaa    1380
cggggcactg gagctggagg tgattccgga ccggaagaag actacctcag cttgggggca    1440
gaggcttgta atttcatgca aagctcctct gccaaacaaa agaccccctc ctcctgttgc    1500
tccaaaacct gcaagtcaag tcctcatcct cccaaccagt aactccagtt tccccagtct    1560
ggtctccagg agtggctccc acccaacctc ctgccttccc cacatccaac ccatcaaagg    1620
gcaccgttgt ctcctccatc aaaatagccc agccttctta ccctcctgcc cggcctgcaa    1680
gtactttgaa cgtggctggt cccttcaaag gaccacaagc agcagtagcc agtcagaatt    1740
acacacccaa accaacagtt tccacaccaa cagtcaatgc tgttcagcct ggtgcagtgg    1800
gaccatccaa tgagcttcca ggaatgagtg ggagaggagc tcagctcttt gctaaaaggc    1860
agtcgagaat ggagaagtat gtggtcgatt cagacacggt gcaggcccac gctgctcgag    1920
ctcagtctcc cactccatct ctcccggcca gttggaagta ctcctccaat gtccgagcac    1980
ctcctcctgt ggcctataat cctatccact cgccgtctta cccactggct gctctcaagt    2040
ctcagccatc agctgcacag ccctccaaaa tgggcaagaa aaagggaaag aaaccccctca    2100
atgcattaga tgtcatgaag caccaaccgt atcagctcaa tgcatccttg tttactttcc    2160
aacctccaga tgcaaaggat ggcctccccc agaagtcatc agtcaaggtc aattcagccc    2220
tggccatgaa gcaagctctt cctccccggc cagtgaatgc tgcctcacct acgaatgtgc    2280
aggcttcgtc agtgtactcg gtaccagcct atacctctcc tccttccttc tttgcagagg    2340
cctcctcacc agtcagtgca tccccagtgc ctgtgggcat tcccacctcg ccaaagcaag    2400
aatcagcctc atcatcttat tttgtggcac caaggccaaa gttctcagcc aagaaaagtg    2460
gtgtcacaat tcaggtgtgg aaaccatctg ttgtggaaga gtaatcttgt agctgaagct    2520
gagtgtccac tttgcttgaa atgaattgtt tgcagtgttt cttgagtccc tgagaatgcc    2580
tagcaaagtc ctcaacttac ttaatttcag atatgtcacc tcctaatctg ggtccaagga    2640
gtataatatt tttaatgagt caaaaatcca actcagattg acctaaaata tatttatctt    2700
ctttgcacac ttaaaaaatc caggagcacc ccaaaataga catgtaccgt tatattaagt    2760
aagcaggaga cttaggattt gtgctgtagc cacaagaaag acagtgatca gtgatatcaa    2820
acatcaggaa tcagccttta tgtaacataa cagctgtcct tctatggtga aaggttcaaa    2880
tgtagtgaag gtataaccta tattgactga gatttccctt ttaggtagtg ccttatctct    2940
attactagtg ttaaaggaat aaggaatcta tgaaggacag ggagcagctc tggtctgtca    3000
atctcagcca cctgtttg                                                  3018
```

```
        <400> 6710
tttttttttg tgagaaaagc cgttgaggtc ctctcaaatc tgcatgtgag caagtaggtc      60
tacaacaggc aaacatactg cttcccgact tctgaaaagt caaggaatcc taagtaatct     120
agatgaaaaa gtgactcctt ggtttcttca cattcccctc caagagccca gtgagccatc     180
agctcctggc cagcaacaca cctgatacaa aatgggagaa gtgtataaat tattatgttg     240
```

```
ataagcaaga taagtgccaa agggtagata agagtgaaag cattgggaag cctggcagag      300
tgcagtcagc aggtcagttc ctggcggttc attgagcagc ttggcccaaa gatgtaagtg      360
aagtccctcc tggtggaggg atgagagcag ctccagttac tcggccttca tgacacagga      420
agttgaaggt ggcacaggca ttgggcgtgt cctgcacttc cacagcaatg ccccgctgcc      480
tcatggcttg aagcacctgg gactgcagcc tctcggtccg gtctccagtc cccaccacca      540
cgatctctat ccggggctcc agcaaccaga agagggaaaa gctgtcttcg gtgatgtcct      600
ggtgggatcc cacgttccac tgcaccaccg agtgcgggag cagagcgcag gggccgagca      660
cgcggtttcc gtttatcatg aagccgcggc tgttgtagct gtcgatgtac attgcctgag      720
cggcctcgcg ttgcagcaga gagatgcgcg tccgctgata cagctcgtca tccgccggcg      780
agagccgatg ccctcgccgc ggggcccagg gaagctcaac gggcggacag cgcagcgagg      840
gtcgcgctcg gtacaagcta cgtagcgcga gagcggtggc catggctgac caacgcgcgg      900
cgaagtcgtc accggcgccg ttagtccccg ggttgggagg ccctgcgga gcctgaccca      960
gcgtggctgc agcgcccct gcgtcccgga gggcaccgca cagctcgacc ggcccagcag     1020
gcgagtgtcc tcagtcttag gaggccgagt tccccgacct ccggcgcagc tccagtgtca     1080
gcacctgccg ccctcccgc cccgggccct tgcccatagt cccgggggag tggaacacct     1140
ggcagcgtgg ccaccctcag ggcgttgcct gggccgcagc cgcggcctgg cccccgggct     1200
ctcagctatt aagccgcgct cccggggcgg ggcgaccgcc cacctggtcg cgtcccgaac     1260
acctggccag gcggtgggtg ccagacttct agcccctaat tccagccttt ggggcttcgg     1320
gcaccgtggg cggggcagcc ggctcaagtt tctccggcta gacgcggaag ca            1372
```

<210> 6711
<211> 1465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1297)...(463)
<223> similar to gi3757661 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6711
```
tttttttttt ttgtttccaa ttgcagattt atttccacac acacaaaaaa aatctatgtt       60
gaagttacag gattgccatg aatgccacac acctttcaga ctaagcagaa agcccacaag      120
aaaaaaaaaa aaagaatgca ctcagctgcc cactgtcccc cccaccctgg tggactgggg      180
aaggacaggc agagccatct aacaggggag ctgagtcttt gggaggatag gaaaagccca      240
ggggtcaagg gaaaacaaca cagacactac acaggggctt tcagtgagac agggatagat      300
cacgccggtg gaaggaaggc cctagcgtcc ctcttcttgc ccaagaatag cacaccattt      360
gtgagtttgc ccactgtgtt cccaacatca atgcacagat acaattctac cagcaagatc      420
acagaaacat agtaagagca aaaggcaaag cagtctggga ttatgggttg attttcagcc      480
caagacacaa agccagctca gacttctgaa ttttttccatc cttgttcacg tcgcagtgac      540
gcaggagaat ctcgcggaac ttatcaaggt ccaccccgct gatgctgggc tggacaagct      600
ccatcatgtc tttgacaaac ccatccactt ctggggcctt ccaggctcc tgtttttacta      660
acatcatagt aggcaaagat tttctcaaag tcccctttc ttttctcagt agaacaagca      720
tccattttaa attggagaag gaagttttcc tgaagagcca gaatccttgc taagtcattt      780
agatccaacc gaccatcttt atttctgtca aaaatcttca tcatggtgcc agtgtattct      840
tccagtttag cctcagaaat ggccttttg tggtgaagaa agaggtctcg gaggaagttg      900
cggagctcag cagctgatat aaagccactg ctgtcagcgt catatttgcg ccaaatctgc      960
ataaactcca cgctgctgtc cagtgggttt tcccggcgaa agagcagaag aaagttttca     1020
tcctcagata agaacatacc agcaagctct ttcatccgaa tgcgaccatc tttagaggca     1080
```

5375

```
tcttgggtag tcataaactg ctgtttcacc ttgtgcaaat ttgctttcat gaccgtgtca    1140
tcagtaccca gtttcatcaa catgtggaga aagaaagcat cgagttcctt ctcttctatg    1200
taacctttt catccgcatc aaagcgctgc cagacctgcc agaagccagc ggcgtccaag     1260
cgccccagag tcggttcccg ggagctgtcc atggtgttga cgacgaagac caggcaccgg    1320
cgcggaagga cctagacaac tttgggaagg actccttcac cgtatttctt gacttgctct    1380
cctgcttctt tcgctatctg attagctttg agtaactgtt gctggggagg acgcgagcgc    1440
tgctggccgt ggcgtcgctg agccg                                          1465
```

        <210> 6712
        <211> 1892
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1757)...(216)
        <223> similar to gi3608122 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6712
```
ggagatcctc tcatttctta agcttggcac gaggggtgcg tcctcactcg gggggcttgg      60
caatgccttt accaaatgcc actcgacctg cctccgggag gagcgaggat ccgagctgaa     120
gctcgctttg gaacatggtc atcgatctga gagccagaga ggctgaagct ggattcgtga    180
aggtccctca tgcccccatg ccgggtgacg ggccgggtag gagtgtctgc gagtggggtt     240
cccatctctt ttttcccagg gtgcacgaca acagcgacat cccccaggta gggagtgcgg     300
tccactcctc taacctttaa agtcttctct ctctggacca gcttcttgta gacagtgtct     360
gggaaggacc tcaggggaca gaacttgccg gtgccctcgg cgcacatgaa gacgccgttc     420
tcatacacga cgcgccccccg gctgatggtg accagtggca cgccgtggca gcgcatgttc   480
tcatacaggt tgaagtctcc tccctggacc tgcgtgctgg ctgagatggt ctttgtggct     540
tctgggtccc acaccaccac atcagcatcg gctccgggaa taatgcggcc cttgcgggga    600
tacaggttca gaagcttagc tgcgttggaa ctggtaacgg ccacaaaacg gttctcatcc    660
atctttcctc caaccactcc tctctcccag atgacgctca tgcggtcctg cacgccactc    720
actccatgtg ggatcttggt gaagtcttcc ttgcccatag ctttctgctt tgtggtgaaa    780
ggccggtgat ctgatgccac gatgttcaga gtgtcattgg ccagcaggct catgaggtag    840
gttgaggtgt tggtgtccag tctcagggga ggcaccgtga cataggcagc cgcgtgggac    900
cagtcctggt ggtagtagtg taagcctgtc agcgtggcat gtgcagtggt ggtctccgcc    960
agcacaacct tcccttgcat cttagcagct gcgataacgt caccagccga gatactggac    1020
acgttgacca ggtagattgg acagtgagtc ctgtttgcaa tggtgataac acgatgagtg    1080
gcttcagctt ccagctcctc tggacggctg atctcgattc cttctgggcc tgtgatcccc    1140
aaatccagtg cctccttagc accctcggcc acaagctccc cattttcagc atggacgcgg    1200
gcgattgccc caatgtcctt gcaagcgtgc aacacttggt acagctcact gtctcgaagc    1260
atgtacaggt ccttgtaggt catgaacatc tggaacgagt tgacacccct ctccctcacc    1320
agtgtctcca tttctgcttt caccttgggt gcccaccagg tgatccccac gtggagggcg    1380
taatcacagc agaccttggg gtcggccaag acctcggcac ttctcataag cgtccacaag    1440
ggaggtctcc ttgtcgggca ggacgtggcc gatgatcatg gtggtgcctc cgacgagtgc    1500
tgccttggtc ccatggtaga agtcgtccac gcacgtggca ttcatgaagg tctggtggaa    1560
gtgggtgctg gtgtcgatgc caccagggat caccagtttt cctgtggcat caatcacctt   1620
ggccccgcca gggatcatga gctcgcggcc cacctgctgg atgatgccat tctcgatgta    1680
gacgtcagcc tcgtgggtgc agtcatcgtt caccaccttg cctcccttga tgaggatcct    1740
cacgctggct gagttggcaa gcatgttccc ggctctccgc ccttttgtgc gcctcacgca    1800
```


                                5376

```
gaaacagaag ggggagagga ggatgtccta gcccgggagg ggtaagccca ccgacccacc      1860
tgccatcacg taatcgtcga ccgggactcg ga                                    1892



        <210> 6713
        <211> 2559
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (2407)...(843)
        <223> similar to gi36609 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6713
     actatagggc aaaagtgtgt tttgttgttt tgtgtttttt tgagctcggt attatatatt      60
     tttttctcat taaaggttta aaaccaaaag cgggtttctc tttgcagcaa atatacatta     120
     aaatagagtc tctgtacagc caagggctct ggggcctgct atagccccaa tgtccctgcg     180
     catcccttgc caaacccaaa aaataaatat agtgttattg ctctgcaggg cataagaggc     240
     agtgctctcc taccccctga ggaggctcgt ttggggagct gattgggggaa gccctggcca     300
     ccccaagggg tccaggggggc tggagtcctg atttggaggt attgcttcaa ggggggacac  .  360  .
     taaatgccca atgcaaatga tgagagggcg gagcgaaggg gggcatgggg ccttttgctc     420
     tccaagtccc actctgcttt gaagaggggg taggatttaa gcagcagcaa aagcatcacc     480
     cacttgggag actctggcct ccatcccctt ccctccctga gataggtttc tgcctcccac     540
     gcatcccgtg cagccccta tggcttccgc aaggccccct acactctggg ggcaccgtta     600
     tggcttgcaa ggggcagcac tgtgccccag aaccctggac acacgttccc aagcttctga     660
     acaaccccta ggaggggggag gagagggcgt ggggcctgtt cccaggggct gatggcattg     720
     cccctggccc tgccagcagg ctgtggcact gcccagaccc cagctccgcc ccagcccttg     780
     gggctgaccc catgctaggc aggtcctgcc agaacccca ccagtcccac cccttgcctc     840
     agtccatcat ggcctcgagc atctccaaga acagcttgtg catgggcacc ttgccctcca     900·
     gcttcacccc .atagaaatgg gccagcactt tgcccgctgt ctggcggagg agcggtagcg     960
     tgagcagcag cctgcccgcc cgccgccgct cagcaccccc tccggggcca gcccggccgg    1020
     cttcatactc cagcagggcc tcgtgcagga gcttctcgca gctgctccac agcctcggct    1080
     catcttcgat gtgcacagag tctgaattgg caagggccaa ggcctttagt agaacatact    1140
     cctctcgctc cagccgcagg gcctgcagcc gccgcactag ttgcagcagg gcagctcccc  . 1200
     aattccccca gtccagctgg ccgtgccccc tcttcatcca ggactaagta ctcagcgaag    1260
     gccagctcat cctgcagcgt cagggagcgc tgagccacac ccagcaccag cacctccatc    1320
     cacacgctct gcagtactga catctggtca gacagcgaca gcgatgagaa gcctgggatg    1380
     ctcttggccc agctgatggt gaccacaatc tctcggtcaa agaggtcaca gagggtagcc    1440
     acggctggga ggtgcccatc agggcctgcg gggtcaggca tggcatagag cttctcaggc    1500
     tcaaccacca gcagatgaga caccagtgca ttcactgggg ctgctgtctt ccggggggcct    1560
     ccagcgactg ccaggggccc agcagggaag gggcccggga agggcagtgg gtccacctcc '  1620
     ggccgccgct tgtacttctg ccgcccaccc cggacgcggt ccaggcgcac tccctccttg    1680
     agcatgccca cccgcaggca cttggtgaag. cggcaggcct ggcaggcctt gcgtctccgc    1740
     ttggtgatct cacactcgtt ggaggccgga cagctgtact cgatgctccc ctggatggtc    1800
     ctcttgaaga aggctttgca ggcctcacag gatgccacac catagtggta gccggaggcc    1860
     acgtccccac agaccaggca gaggcgcttg ggcagggagc tgagcaccag cttcccaccg    1920
     ccctgctcgc caggcccagc ccccctcccca tcctcctctt ccttgtggcc tgggaggcag    1980
     cgagtgggag ctgcgaccag gggccagggc cacaggaggc tcggtctctg tctccgagga    2040
     accctttgga ctgtcagggc tggccggctc tgccttgatg tagagaggct caatgcccac    2100
```

```
cacctggctg gacatggcgc tggtcacctg gggctccggc agcgcggtcg ggcaggcatg    2160
ggggccgagc ggcccggagt gccggagtga gccggggggcc gcgggcggcc cctcctccgc    2220
cgttttctcg ggccgagccg ccccaccgcg ccgcgtcccc tcactcggcg gcgcccgccg    2280
gctgcttgta gcatacactc tggttttcct cccaccgcac caggcacttt gtggtttctg    2340
agcatcttcc caagctcttc catccagact gccagggctg tccttggagc tcatctccaa    2400
tcccatggca atcttcccca gccgtggggc tctcacgttt ctacctctag cctggacttg    2460
ctgtgagctc cagacccatc tctccagctg cctccttgac atcctgcatg tctagaaggc    2520
atctcggacc gaacacagcc tacgtggact ccacgtgtt                           2559
```

<210> 6714
<211> 4528
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4529)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (4147)...(3510)
<223> similar to gi1469165 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6714
```
taggagagcc gagctgggta cgagactaaa gggcccacat gacccagtga cgccagattt      60
ccaccgagga ctgagtgagc tgctcagaca tggctttctg cctcccagcc tgtcctccac     120
tgtgggcata gcatctgtgc ctgcctgcct gcttgaggga gaggagtttc tgctgctgcc     180
ttgagctggg gggaagagcc caggggcaga tcctggcagc tgcctggatg gggctcctcc     240
ctgcccttat gagcatgcca ggcccagaaa ggccgagcct gggctgcctt cctgccccag     300
ccgagggagg ggtcagacgg ctctaccatg ggtaactcag caagagctg gttttcctct      360
ttattctggg tgtgtgcagc tgtgaggccc caacccagga gaggccatgg cctaggtacc     420
tgtgaccacc ctgcccccgt gtagagggca tcgnctttcc tgctatttta ttctttcagc     480
ttttgtctta ggcccagaat caaagtgaaa attgagtcga gctgacccctt acaacagtag    540
gatttagtag ggtagatttc aaatgaggct tcgcttctcc caaagtagcc agtccaagtt     600
ccagtggctg tcgttcagct catgggagct tcatggggac acagccggca caggtgcagg     660
gcccgagtcc gcccacccag cctggcgctg aaactgcaca cgtacactat gtggtttaag     720
agcactttat tattgttctt aaggctactt ttaagtacaa aaaaagatgg cctgccaaac     780
cttttttttt cttcttccag gaaaaacagg ccacagagaa tggtatatta cagatttaca     840
cacatgaaga gaaggtcaga gcgcactgca ggcagcgcgg ctctgggaag aacttcacgg     900
agccccttct tagagcaggg aggggcttt ctcagtgaaa tgtttggttt tctgctgcct      960
cctctgcccc aggcccccct ccagggtact gcctatccca gataggtcag tgcaccaggg    1020
acccggccgc cagcaccgcc gaccccctccc agagtgacgc ccttgttcac tgacaaagag    1080
acctgtccca ggagtgtcct ccaccgagcc ggtcagctgt gggtggtttt cctgttacga    1140
cgctcagtag cctgtagcaa taacaaactc gtggctatga atgcagatgc agtgttctca    1200
tagaataact gttcctgcac ttttacagac aaatctacga caaaaaaaaa gatcaacttt    1260
ttttttccga acaacaaaaa aaatgaatga ttacaatagg aaagggaaaa attaaatagc    1320
tacatatcat taacaaatta atgttcttca aaaaatacct acaaatttct ctgtacattc    1380
tttacgcaca gcgtaacgat ggtctcaaaa tcacccatat agaaaagtgt tctcaacgat    1440
```

```
ttttcctaca gaaaatatag gggcctgaat gccaaagctt ggaagcccag tacagtggga   1500
gtgaaatgtg tgcggggcaa ggagaagggc tttctttcc tccactttc aaaggcctgc   1560
agccactctg tgactacaag agccagtcct ccgaccttt cacccagtgc caatttccaa   1620
aattcaacag ctaaaaactg taaaaccggg ggtcatacgg tgtgcagagt ccacaaagcc   1680
ttgcaggtga ggtgaccacg cccacgtcac ctggtcaggt gccatcgtcg tgagcctctg   1740
gtgggccagg tgggacacag cacaccccag ggggaggga tagaaacgct cattgaccaa   1800
aaaggagcag ctgtgacctc cacagctgtg tctgtcatgc ttgcttcatc taatttctag   1860
ttagtagcta ttaatatagc aaataataaa tgcagtaata acagtataaa gtcagaggaa   1920
tgtatactgc cttggcccca gcgtacgagg aagcgtataa aacaccatat cacagattgt   1980
ctgtcagtaa tctgctgttc agccaagaga gttcaaaggg agcagtttct gcatgtaggg   2040
aagttggaag acacaaaccc cacctcccct gggagcttgt aacaaagcag acagggatgc   2100
aaaaataaat gatgtcagcc tgcagccaaa ctccagcatc ccacaccgca gctgacccac   2160
tgctcatcgc gagggcctgc caggagctgg cctcccgcac tacttgtgag taaagtgaat   2220
atcaaatacc aatcttagag tacaactgta ccagcagtaa gtatatctag gactgtaact   2280
gacaaaaata aactaattct gaaaagaaga tagtaagtat taaggttttt gtttactgtc   2340
tatataatta atagaaacca gctattttt ctccattaaa acatgcatca cgtttaaagc   2400
actatggaat cctccaacct cagctctagt ctaacaaact gcagtgttca gagaagataa   2460
aatgcccgtg attggtagag tctgcagtcc agttgcaagc ccctgaaatc tagagagaga   2520
aagacctata acctgtatga gacttccct tccaaagctg tattgtctac attaaaaaaa   2580
acaaaaacag taacaacaac aaacacacaa atggtcagaa atgtcatcct taaacccttt   2640
gttttttcagc agtttgccct cagagttctg gcataacaca taaagttgtc aggcaacttt   2700
agtcctcctc caatagtgca aatcagacac gacagttctc ttcaagtata cacacgcaca   2760
cacatggacc gaaccaaaca cgccgtggaa gctgagccac acacaccccg gtctcaagaa   2820
gcaaaggaaa aagcacaaag cgtctgagtc accaattcat catggcttgt gactgagaaa   2880
gcgctgtgga gtcctggccc cgtcggggca gcagacctgc atcagaggtt tctttggtaa   2940
ctgaggcagg aagtaaggat gctacattag acagatgttc cacgcgtagt tcctgctatc   3000
atgtttgagg gccccccttgt acggataccaa agcaagtaca aaaacagaac acaaatccca   3060
acaacatggt ttttgcaaat aaaccatccc ttcccttccc cccaccccac ccccatgatt   3120
ttttttttt taagtactga ctgttcaaag ctcaggcaaa ccatgcagat ccacgtgttg   3180
ttggaggagg cgctcccttc aggagaccac agaggggga gtgactgtggc tgaccatgtg   3240
ggcagagggg ctggcgggct ggccctgcg agaggcggac tcagggctgc tggatgctcc   3300
gtccttggcc gctttgatct ggagccacgt gtcacccaga gctttgggca aagtggtcag   3360
tccacggagc ccgtgattgg acaccggagt ttgggtgccg gctcgggctc ctttgtaatt   3420
cttgcccagg gctcctgcgg aaaatgctcc tccacccacg ggtccacagg tggtggcagc   3480
tgcaggcaaa gcaggaaggc aggcagtcag acacaggtgg cgctcggtgg cctccggtag   3540
ctggcaggcc cgggcgcggc acagccgctg tgcgcgaatg gggtagtgcg agaggttgca   3600
gttgcgggcg ccagccgagg cacaggtgat cacggagggc cggttctgct gtcgctcccc   3660
cggggtcagt gtgggcgaga ggccggctgg cctgctggcg tccaggctgt tcttggtcag   3720
tgcgaggggc tgctccaagg ccaaggcttg gggagggagg tgtacaggtg gctgccgtgc   3780
aggctcatgg tggggggccac agcgcgctcg atgggctgc ggctccgctc ccgggggtct   3840
ctgcggcagt ctccattggc agtcttgttc agatggggt tgaagatgcg actcattttg   3900
gagacgtggt cgttgtcaca gtctaggtcc tcgtcacctg gctccatgct gaacttcctc   3960
ttgctgggc tgattggggg agggccggtg cggtgactgc tgagggcaga ggccaccggc   4020
aggtctgca ttctgggttc tcccctgaga gcagcttcgc cttcgtagca cagaatgccg   4080
atattgttgt tcatcttgtc caagtactga tagttcaaca ggtccatctt cataaatagc   4140
atttattggg ctagcaaaaa aaaccagctc tttgcttttg ccccaaaaga gttaagtttc   4200
aaaaatcaat tgttgctgag tagctcctgg ctcttcaact tcccaaaggc aaaggcccag   4260
cctcagacta tcaaaacaaa gtatgcaaaa gttaaaaaaa aaaaaatcag gcacaaaaaa   4320
atcgagctca cacgaaaccc ttcaagggct tactggtaga cggtgtatgt actgtatccc   4380
cgatcgagta tgaaaacagc gtttcagaag tccttacaag tccttcctgg aaatggaaaa   4440
gagtgaaaaa gagaaacgcg cagcccgttt cctaggacaa agcggcgccg ccccctctca   4500
cagcccgctg caagccggca gcgctgac                                      4528
```

5379

<210> 6715
<211> 2018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (58)...(640)
<223> similar to gi1770515 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 6715
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tttcgtggag gagctttctg ggagtagccg gtgctgagag aaccgtggct ggcaaagatg     60
attcaggcga ttctggtttt caacaaccat gggaagccac ggctagtccg cttctaccag    120
cgtttcccag aagaaattca acagcagatt gttcgagaga ctttccatct agtcctcaag    180
cgggatgaca acatctgtaa cttcttggag ggtggaagtt tgattggtgg ctctgactac    240
aaactgatct accggcacta tgctaccctc tactttgtat tttgtgtgga ttcctcagag    300
agtgaacttg gaatcttgga cctcatccag gttttttgtgg aaactctgga taagtgtttc    360
gaaaatgtgt gtgaattgga tttgatcttc catatggata aggtgcacta catcctccag    420
gaggtggtga tgggtgggat ggtgttggaa acaaacatga atgaaatcgt ggctcagatt    480
gaggctcaaa acaggctgga gaaatccgag gggtggcctt tcagcagccc ctgcgcgggc    540
tgtgtctgct gtgaaaaaca tcaacctgcc agagattcct cggaacatca acattggcga    600
tctcaacatc aaagttccca acctgtccca gtttgtctga ggatcaagta ttggcctgaa    660
atagagtcct taagacaagc aaagacaagc aaggcaagca cgtctggaaa cagaacccat    720
tttgagcctt agaagagtca agcctcagga cctggaaact ttgtgtctgg ggaagactgt    780
ttggcatgga atagggaagg gattcctatt gacactgctc gggtgcaccc agttctcaca    840
tgtgcagtca tgccgttctc tgatgcatac ggccactgca gatgtgaggg gccctgcctt    900
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ccaagggtta gggactgcat tgagcaggcc cacctgcttc ccagaacctc ctcactaggg   1020
ctgagcacct tctctgagta gagtcttcat ccttagcacc acagacttct gaggtcctgt   1080
gccctttact tgctggtgag gtgtcatagg tagaaaaggg ctggcccttc agatctgggg   1140
gtgtggtgag tggcaagtaa gggcagaatt ttaggagaac cagagtcacc cgctggctct   1200
actgagattg ttacacccag aatccttttg gggttttttg tggtttttttt tttttgaggt   1260
ggagtcttgc tctgtcaccc aggctggagt gctgtggtgc aatctcggct cactgcaacc   1320
tctgcttccc gggttcaagc atttctcctg tctcagcctc cccagtagct gggattacag   1380
gcacccacca ccatgcccag ctaattgttg tatgtttagt agagacaggg tttcaccatg   1440
ttggccaggc tgggctcgaa ctcctggacc tcaagtgatc tacccgcctt ggcctcccaa   1500
agtgctggca ttacaggtgt gagccaccgt gcccggccac cagaatcctt tggtatagcc   1560
aagccttttg gttaccgcct catgaagaat atgcttcccg cattgtccta gtcccagttg   1620
tattctcaca ggtgttatgt gcaggacaca atccaaatca taaacctggc tcatgcccaa   1680
cacatttctg ctaataggga gagggaccca ccacacaccc acacatgcca gaggtccctc   1740
ctcacagagg agagggcctg tgtctgtaga aggttaaagc tgacaacatg tgaaacatcc   1800
cagaattatg actcttccca agtttaaaat acattctcct catgagagca gaaggtttgt   1860
tgctgtgttg tgaatgatga gctgcctcca tagggaaccc actgccacct gggccagctt   1920
ctggagcatg agaacctgag ccagggtcac ccttgtgggg cctggacatg acgcacgctg   1980
gctgcgacta ggagcagggc tgcctcttct ccctcccc                           2018
```

<210> 6716
<211> 1907
<212> DNA

<400> 6716

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tggccgcccg cgtatgtaag attggatcct ttaaaacggc cgcccctttt tttttttttt      60
aagtgaaata atagatttat tcaaagagaa ataaaatgtc ctgggtaaag cttctgtaat     120
aatactattt ctgatactgt atctctgaaa aatggctaac tagtcacctt atcaatacat     180
ttaaggcatc aataataggt accactgagg acatacattg tgaagaaaga gaagaataag     240
tcaaatacta aaacatactt atcatgacaa ctcaaggtga catgaatatt taatgaaaat     300
ttagaatata acaacatatg actctcattc tgtggacata aaaggaaaaa tacagtaatt     360
cattttactc attacatttt acaaaatcag cccaatgaag cagtattttt taataaaaac     420
agtaatttaa tttcaaacaa atatattacc atcctattcc tttatcttgt atatatgtat     480
ctaattggca aaacatactt tactgaaatc agtaacaatc caatccatga tacttcaatt     540
gcttcgatca ataaacatct taaatttgaa actcattttt cttatgccat aagcctgatt     600
atcagttcta taaaaacgct acaccctatt gcttggccca ttaagtgtaa ctagtcttct     660
gcacaaggct aagtggctaa ggtacttttg aacaaccaca cacaattcat caagcacaca     720
cactcactcc tgctcctctc acacacggcc accagagcag ctcccctagt tctcttgttc     780
ctcatagtga gcatagccac tagcataggt ccttcctaaa ttcaaattag taaacaaatc     840
tgatgactca gtatctgaat cctttctgcc ttcatcttct tcctcttcat catcctctgc     900
ttcatactca tcctcctcct catcgtggta gctggtatca ccatacttat cagatgaaag     960
gttcttccaa taagcatcat acccagaagc tccatctccc tcttcacctc cagtctgcct    1020
gccaaatttc agggagcgtg ttgacatgct aaggtcctta gtctcctgag tttcatgccc    1080
acatttagga caaggaggct gtttttccttt ttcttgctta aacactttgc tccttgtatg    1140
atcatcacag aaacaagcct tacaacggag acatgagtgc tgaccaagcc gattgcatga    1200
aacacattta aatgtttctg cctctaaaac ctggcagctg gcttgatgct caaattgatc    1260
atcttcacag agaaagttat ggcaaaaaga acaactgaat attctgcctc catggtccca    1320
cacgcctcgt tcacattcaa caacactcag catcggtaag agggcaggca caagcatgtg    1380
tactgagaca cttcctccca tggcaaaccc aagcttcaca gaagtcacat attgcaccca    1440
ccattgcaag gccagtactg tatacaccag catgctttat gacacagtct gaagacttca    1500
tcatgcactt tgttttccca cactgtgcac aaattggtaa cttctgtaca gaattacaaa    1560
agtagcaaaa tgctctattc ttctgccgcc tctgacactt gtcacattcc attgaggcat    1620
tacatggatg tttagctaaa tctatagtgc ttcttgatgc tcttagttgt ttttcacgtt    1680
ctcggcggtt ctcagccttc ttcctcgcac cagtcttttt tttaggcatt ttcccctcgt    1740
gcgcgctccg ggcaaacctc gctcactttc gccgggagac cggactcact caggggggccg    1800
agggacaggg aatggcgtga ggcccacccg cgacagcagt aaatccaact cgtggaccag    1860
gactccggga aagaaggtac taacagccag ggaggctgac agccgat                  1907
```

<210> 6717
<211> 1736
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (218)...(1608)

<400> 6717

```
ggtgcgtcgc ggggcgggg  ccgcgcaggc gtaccgggtg ccccggctct ggagcataaa    60
caagagcggg dacgggatga ggcggcggtt gatcccaggg tggcgagtgg cggcgaccga   120
ggcggcgagc ggggcccggc gccgaccctg agtgcagcct gacccgccct cgcgcgcgcg   180
ccctccccgg ccgggcccac tcgccgcgcg cccagccatg aacctggcga gccagagcgg   240
ggaggccggc gccggccagc tgctcttcgc caacttcaac caggacaaca cagaagtgaa   300
aggggcatca agagcagctg gtcttggccg tcgcgctgtt gtctggtccc tagctgttgg   360
tagtaagtcc ggttataaat ttttctccct ttcttctgtg gataagctgg aacagatcta   420
tgaatgcacc gatacggaag atgtgtgcat tgtagagaga ttgttctcca gcagcctagt   480
ggccatcgtg agccttaaag caccaaggaa gctaaaggtt tgccacttta agaagggaac   540
tgagatctgc aactacagct actccaacac gattctggct gtgaagctca acaggcagag   600
gctgatagta tgcctggagg agtccctgta catccacaac attcgggaca tgaaggtgct   660
gcatacgatc agggagacgc ctccaaaccc tgcaggcctg tgtgcgctgt caatcaacaa   720
cgacaactgc tacttggcgt acccagggag cgcgaccatc ggagaggtgc aggtcttcga   780
taccattaat ttgagagctg caaacatgat tccggctcac gacagtcctt tagcggcact   840
ggcctttgac gcaagtggaa ctaaacttgc cacggcttcg gagaagggga ccgtgattag   900
ggtattttcc attccagaag gacaaaaaac tctttgagtt tcggagagga gtaaagaggt   960
gcgtgagcat ctgctccctg gccttcagca tggacggcat gttcctctcc gcctccagca  1020
acactgagac cgtgcacatc ttcaaactcg agactgtgaa agaaaaaccc ccagaggagc  1080
ccaccacctg gaccgggtac ttcgggaaag tgctcatggg cctccaccag ctacctgcct  1140
tcccaagtga cagaaatgtt caaccagggc agagctttcg ccacggtccg cctgccattc  1200
tgcggccaca aaaacatctg ctcgctagcc acaattcaga agatcccgcg gttgttggtg  1260
ggtgccgccg acgggtacct gtacatgtac aacctggacc cccaaggagg gcggcgagtg  1320
tgccctgat  gaaaccagca ccggctggaa cggcagtctt ggaaaacgac caaatgagaa   1380
tcttgggaac tctgccttct cacgaattgc ccccttagtc acctcagaca ttacggcgca  1440
gcttgcagga aaaggtactt acgtgccttc atccccaacg gagacttgcc ctacacgaga  1500
cgaccctggg tgctgtgggt ggcgcctgcc ctggaggacc gaaggcccac gccctgcgcc  1560
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acctctgacc cggggagcag agaacactgg cttcacagag gactttgtgc attgctgcct  1680
atgaactttg acctgagtcg ggggagagga tggcagagac tttattaaaa aaaaaa      1736
```

<210> 6718
<211> 1483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1374)...(565)

<400> 6718

```
tttttttggt cggatcctcg tctttattct cgggaacgga aacaaccggc ggcctgaaaa    60
```

```
ggaccaaagc tcatccttta aaaataaaat gaaaataaaa aacgtattat ttggctccaa    120
aacttccgtc atgagaataa caactctgaa tggcaccttt tcacacatcc actgtgccca    180
acggccagtg cttcacccaa ccgcaggcca gatgccgtga ctcctaacgt ctttagagaa    240
cagtatcaga cggcacacca aggcgtttta agacacggga atttgtttcc tatggacatt    300
tcttttttac caaaaaaaaa tataataact tagtttgcat tttacagcat ttccaatcgg    360
ccagggcatc cttggctgga agctcatggg gttgagtgtg gcgagaacgt ccacagcttc    420
ggtaccaggg tcaggcctgg gcccagggca tgcggctccc agcgcgcggc cctcaccgca    480
cggccccacc aggaccgcag cgcccaccgc agcctgtgac tcatcaggag aggaagggca    540
gcggcccacg gagtcagtcc gtgccaacct cacaagggtt cagccccctc tcctgggcat    600
ccctgtacat cctctggaag tccttgaagc gtggggcaca gccgagccgc gcctccccga    660
agtgcatgtg gccagtgaag aggaagtcgc catgccccgg ccgcacgcca cactccagca    720
gcgtcctgac gcgcccctgc cagtggccgt caccctcggg caccggctcg aagaccctgc    780
ttttctgccg atagagtctg ctcacgcgca ggtggatggc tgagtcctgc cgctcaggct    840
cgtgggtaac ttgctggatg gagcctcgaa cggcgaagtc gctggtgcag acggctagga    900
gcacctcggt gtcactgcag ggacggcacg gcgcagacag ctcgtgcagg tccgacgccc    960
tgtgcctcct aaccagctcg tactggaagc ctgtggtcct ccggccgata tcctgctgcg   1020
gcgtggcctc cacgaacagg ccgccctgct ccaggccaaa acactgcacc cggccgggcc   1080
tgccgtcccc gtccggtacc agcagtctca gttctccagt tttttccaaa taaatattgg   1140
cccccgagga gtccgtgaag gacctgatgc acacggtcag gtgccgggca ggcgagaagg   1200
tgttgggccg caggttaacg atgagagcac ctgttgggta catccactcc acggcacccg   1260
ccgcacagcg cagatacacc tgctccacct ccttcctgtg tgcctcgtgc gtcagcccgc   1320
tcgcagcggg ggaagcaacc cgttcggggt gccagcgagc acagcgtctg ccctaacccg   1380
gcgccctggt gctgctcggc atcagggtgc ggggtcccgg gagaggagcc gtccagggg   1440
ccgcggctca ggggcgcgcg tacgcgtggg cgaacgcgtg ggt                     1483
```


        <210> 6719
        <211> 3707
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (222)...(1912)
        <223> similar to gi31847 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters

        <400> 6719
```
ggctgcccga gcgagcgttc ggacctcgca ccccgcgcgc cccgcgccgc cgccgccgcc     60
ggcttttgtt gtctccgcct cctcggccgc cgccgcctct ggaccgcgag ccgcgcgcgc    120
cgggaccttg gctctgccct tcgcgggcgg gaactgcgca ggacccggcc aggatccgag    180
agaggcgcgg gcgggtggcc gggggcgccg ccggccccgc catggagctc cgggccccgag   240
gctggtggct gctatgtgcg gccgcagcgc tggtcgcctg cgcccgcggg gacccggcca    300
gcaagagccg gagctgcggc gaggtccgcc agatctacgg agccaagggc ttcagctcga    360
gcgtacgtgc cccaggcgga gatctcgggt gagcacctgc ggatctgtcc ccagggctac    420
acctgctgca ccagcgagat ggaggagaac ctggccaacc gcagccatgc cgagctggag    480
accgcgctcc gggacagcag ccgcgtcctg caggccatgc ttgccaccca gctgcgcagc    540
ttcgatgacc acttccagca cctgctgaac gactcggagc ggacgctgca ggccaccttc    600
cccggcgcct tcggagagct gtacacgcag aacgcgaggg ccttccggga cctgtactca    660
gagctgcgcc tgtactaccg cggtgccaac ctgcacctgg aggagacgct ggccgagttc    720
tgggcccgcc tgctcgagcg cctcttcaag cagctgcacc cccagctgct gctgcctgat    780
```


                                5383
```

```
gactacctgg actgcctggg caagcaggcc gaggcgctgc ggccctttcg gggaggcccc   840
gagtagagct gcgcctgcgg gccacccagt gccgttcgtg gctgctcgcg tcctttgtgc   900
agggcctggg cgtggccagc cgacgtggtc cggaaagtgg ctcaggtccc cctgggccgc   960
ggagtgcttc gagagctgta attgaagctg ggtcttactg tggcttcact gcgtgggagt  1020
ccccggcgcc aggccatgcc ctgactattg ccgaaatgtg ctcaagggct gccttgccaa  1080
ccaggccgac ctggacgccg agtggaggaa cctcctggac tccatggtgc tcatcaccga  1140
caagttctgg ggtacatcgg gtgtggagag tgtcatcggc agcgtgcaca cgtggctggc  1200
ggaggccatc aacgccctcc aggacaacag ggacacgctc acggccaagg tcatccaggg  1260
ctgcgggaac cccaaggtca accccagggg ccctgggcct gaggagaagc ggcgccgggg  1320
caagctggcc ccgcgggaga ggccaccttc aggcacgctg gagaagctgg tctccgaagc  1380
caaggcccag ctccgcgacg tccaggactt ctggatcagc ctcccaggga cactgtgcag  1440
tgagaagatg gccctgagca ctgccagtga tgaccgctgc tggaacggga tggccagagg  1500
ccggtacctc cccgaggtca tgggtgacgg cctggccaac cagatcaaca accccgaggt  1560
ggaggtggac atcaccaagc cggacatgac catccggcag cagatcatgc agctgaagat  1620
catgaccaac cggctgcgca gcgcctacaa cggcaacgac gtggacttcc aggacgccag  1680
tgacgacggc agcggctcgg gcagcggtga tggctgtctg gatgacctct gcggccggaa  1740
ggtcagcagg aagagctcca gctcccggac gcccttgacc catgccctcc caggcctgtc  1800
agagcaggaa ggacagaaga cctcggctgc cagctgcccc cagcccccga ccttcctcct  1860
gcccctcctc ctcttcctgg cccttacagt agccaggccc cggtggcggt aactgcccca  1920
aggccccagg gacagaggcc aaggactgac tttgccaaaa atacaacaca gacgatattt  1980
aattcacctc agcctggaga ggcctggggt gggacaggga gggccggcgg ctctgagcag  2040
gggcaggcgc agaggtccca gccccaggcc tggcctcgcc tgcctttctg ccttttaatt  2100
ttgtatgagg tcctcaggtc agctgggagc cagtgtgccc aaaagccatg tatttcaggg  2160
acctcagggg cacctccggc tgcctagccc tccccccagc tccctgcacc gccgcagaag  2220
cagcccctcg aggcctacag aggaggcctc aaagcaaccc gctggagccc acagcgagcc  2280
tgtgccttcc tccccgcctc ctcccactgg gactcccagc agagcccacc agccagccct  2340
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ggtctggcag agcctctgag atgatgcatg atgccctccc ctcagcgcag gctgcagagc  2460
ccggccccac ctccctgcgc ccttgagggg ccccagcgtc tgcagggtga cgcctgagac  2520
agcaccactg ctgaggagtc tgaggactgt cctcccacag acctgcagtg aggggccctc  2580
catgcgcaga tgaggggcca ctgacccacc tgcgcttctg ctggaggagg ggaagctggg  2640
cccaaaggcc cagggaggca gcgtgggctc tgccaatgtg ggctgcccct cgcacacagg  2700
gctcacaggg caggccttgc tggggtccag ggctgttgga ggaccccgag ggctgaggag  2760
cagccaggac ccgcctgctc ccatcctcac ccagatcagg aaccagggcc tccctgttca  2820
cggtgacaca ggtcagggct cagagtgacc ctcagctgtc acctgctcac agggatgctg  2880
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aggggtggtg tggtgttggg aaggggtcct gcaggggag gaggacttgg agggtctggg  3240
ggcagctgtc ctgaaccgac tgaccctgag gaggccgctt agtgctgctt tgcttttcat  3300
caccgtcccg cacagtggac ggaggtcccc ggttgctggt caggtcccca tggcttgttc  3360
tctggaacct gactttagat gttttgggat caggagcccc caacacaggc aagtccaccc  3420
cataataacc ctgccagtgc caggggtggc tggggactct ggcacagtga tgccgggcgc  3480
caggacagca gcactcccgc tgcacacaga cggcctaggg gtggcgctca gaccccaccc  3540
tacgctcatc tctggaaggg gcagccctga gtggtcactg gtcaggcagt ggccaagcc  3600
tgctgtgtcc ttcctccaca aggtcccccc accgctcagt gtcagcgggt gacgtgtgtt  3660
cttttgagtc cttgtatgaa taaaaggctg gaaacctaaa aaaaaaa              3707
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (44)...(2252)
<223> similar to gi805095 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6720
```
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ccctggcccc actggggcgg ccccggtctc cgcccctgcc cccgggccgg gcccggcagg    120
taagggaggc ggcggcggag gcagccccgg gcccacggcg ggcccggagc ccctgagcct    180
gccgggatc ctgcacttta tccagcacga gtgggcgcgc ttcgaagccg agaaagcccg    240
ctgggaggcc gagcgcgccg agttacaggc tcaggtggcc ttcctttcag gagagaggaa    300
agggcaggag aatctaaaga cggacctggt gcggcggatc aagatgctag agtatgcgct    360
gaagcaggaa agggccaaat atcataaact gaagtttggg acagacctga accagggga    420
gaagaaagca gatgtgtcag aacaagtctc caatggcccc gtggaatcgg tcaccctgga    480
gaacagcccg ttggtgtgga aggagtggc tgcaacttct cctacagtac ctgcaagagg    540
tgggctacac agacaccatc ctcgacatgc ggtccaagcg cgtccgttcc ctgctgggcc    600
gctcgctgga gctcaacggg gcagtggagc cgagtgaagg ggcccccagg gctccaccag    660
gccctgcagg gctcagtggt ggggagtcgc tgctggtgaa acagatcgag gagcagataa    720
agaggaacgc ggcaggcaaa gatggcaaag agcgcttggg cggctcagtg ctggggcaga    780
tccccttcct gcagaactgc gaggacgaag acagcgacga ggacgatgag ctggacagcg    840
tgcagcacaa gaagcagcgt gtgaagctcc catccaaggc tctggtgccc gaaatggaag    900
acgatgatga ggaagacgac tctgaggatg ctatcaatga gtttgatttc ctgggctcag    960
gagaggatgg ggaaggggct ccagaccctc ggcggtgcac tgtggatggg agcccccatg   1020
agctggaaag ccgtcgggtc aaactccaag gcattctggc tgacctgcgg gatgtggatg   1080
ggctgccccc aaaagtgact ggcccgcctc ctggcacacc ccagccccgg ccacatgaag   1140
acgtcttcat catggacact atcggggcg gggaggtgag cctgggggac ttggcagatc   1200
tcaccgtcac caacgacaac gacctcagct gcgatctgtc tgacagcaaa gatgctttta   1260
agaagacgtg gaaccccaag ttcaccctgc gctcgcacta cgacggcatt cgttccctgg   1320
ccttccacca cagccagtcg gctctgctca ccgcctccga ggacggcacg ctcaagctct   1380
ggaacctgca gaaggcggtc acggccaaga agaatgcggc gctagatgtg gaacctatac   1440
atgctttccg ggctcacagg ggcccaagtg ttggctgtgg ctaggggcag caacagtgaa   1500
tactgcttac agtggcgggg cagatgcctg catccatagt tggaagattc cagaccttca   1560
gcatggatcc ctatgatggc tacgacccaa gcgtgctgag ccacgtcctg gagggccacg   1620
gggacgccgt gtggggcctg gccttcagtc ccacctccca gcgcctggct tcctgttctg   1680
ctgatggcac cgtccgcatc tgggacccca gcagcagcag cccggcctgc ctctgcacct   1740
tccccacagc cagcgagcac ggggtcccca cctcagtggc cttcaccagc accgagcctg   1800
cccacatcgt ggcctccttc cgctctggcg acaccgtctt gtatgacatg gaggttggca   1860
gtgccctcct cacgctggag tcccggggca gcagcggtcc aacccagatc aaccaagtgg   1920
tgagtcatcc aaaccagcct ctcaccatca ccgcccacga cgacaggggc atccgcttcc   1980
tggacaatcg gacaggtaag ccggtgcact ccatggttgc acacctggac gcagtcacct   2040
gcctagccgt ggaccccaac ggcgcattcc tgatgtcagg aagccatgac tgctccctgc   2100
gtctctggag cctggacaac aaaacgtgcg tgcaggagat cacggcccac cgcaagaagc   2160
acgaggaggc catccacgct gttgcctgcc accccagcaa ggccctcatt gccagtgctg   2220
gcgctgatgc cctggccaag gtcttcgtat gatgcccacc tggccctgcc ctggccgcca   2280
cgctggctgg ggtgtagggc cgggcaggtg gggctgaggg gactcccagc ctcgctggag   2340
gtgcagaggc ctggcctctg tctgtttgcc atggagcctg gtggtgctaa cggccctttc   2400
cccaggaatc cctccccaac ggctgccttc cccaagcatc cagcctgggg atgggcccct   2460
ttcaggaatc accccgagg atggcctcgg ggtttccccc tgtgccctga cagccgctcc   2520
tggtatcaga gctgctttcc agagggcagc acagccaggg ccgggtgtct ttagggatca   2580
gtttttccaa gactccagaa ggtgccaggt tctccccttg agctcctgct cccccatccc   2640
ccatcctccc agacctgggc aggagctgtg ctgggagaaa gggtggcagc cgggagcctc   2700
```

```
agagctgagc cccggcctgg ctgcccctcc cctccggccc tctccactgc tttccagaca    2760
ctaaccaagg cttccaggcc agggattgcc caacactcct agggcaagcc tcccagcgcc    2820
ccatggggtc gcccatgggt agagacggct ttcttgtgcc cctc                     2864
```

<210> 6721
<211> 2066
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1725)...(604)
<223> similar to gi5734367 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6721
```
tttttttattt gtgggaaaat aactttattc atgactgtgt ttaccacact atcttatgga      60
gaagagatga tcaataaata tttgttgaat aaatgaatag cagttacaaa acacttgatt     120
catatggaat taatgttggt tctcaaagtc gaaaaattac aaacaggcac tgatgttcag     180
ccagtataca agtctgggtc acagcaggtt gtataatact gaaatacccc ctgccactga     240
cctttgggcc cccaagatgc cctccccact ggccactgct tctccccact gggaaccccc     300
tgaaagttcc caacaggctc ataacaaaag ggctaatgtc tcgcacagca gcggagcacc     360
caggaccgag cagccacatg gccgggtct gctggtgaaa gcatccattc tgactgatca     420
ggacctgagg ggcctcatgg ttacatattt tgataatatc cctaattata aataaggctc     480
agttatatag tttgaaaaca atgcttctcc tcattgcaaa atctcttaga agactccgta     540
gatccaggaa cggaaatgga aaatgacagc gtgtcaatct ctgaaggttt tgggcatttc     600
cattagcact ccatcttcat gtaaaccaga agatatgcag tttcctgcca gtggtagtta     660
ggatttccgt aggtacactg gatgtcttcc caggacacca agcaaatatt ggagtcattg     720
aagcagaacc attttccatc cacagcattc cggacgtaga cacagtaatg accggagtct     780
gccattccca cgtgcgcaat cacagcaaaa agctcatact gccctccaga ctgctcctca     840
gcatcacaag actctcgctt cattggaagg atctggctga aatccaagct ctgggggaag     900
tacagggagt ggcagatctt tctcggtctg tgaattcctg atggagaatc gcatgaggtg     960
gattgtcagg gtctggggca aatgggtcag cttcaagacc tgtttcccac gggtcttctt    1020
cccacagttc tcacagaagc acttgctttt gcttgataac tccctgggct ggaagaagca    1080
gtgcagggcg tcctccagtg tcttcagggg ctttgagtcc acatcaaaaa gagaaagtgg    1140
gagggtgagc atgctgctgt ttctgctact ctccatggca cagtcaacgc aaatcaagga    1200
gtccttcacc cggatcgtat acagggcctg cagtctctcc accaagtgca catcagtgat    1260
ctggtcctta atcaggttcc agagtttgag gtacagttgg gcagcatcat gttggacaaa    1320
caagggcacg ttgcacttct gcaggcagta ggccagctcc aggggccgca ctgctttctg    1380
ccggctgtcc tgcatcttct ccagcagcag aagcatctgg aaagggacgc ttctcctctg    1440
ctcgtcagct cccctgggca ccgtgatcct cttcaatatc ctggtgaagt ccacattcat    1500
tacgaacacc tgaatcaagg agttaaggca gcaggtctgt ccaatgttgt gtaaacccaa    1560
ccaaggccat gagggtagtc ccaggccctg ggacgctctc tgggctgctc tctcttcatg    1620
ttgctgtctt cttccttctt ttcttcaaga tctgccgggg actgcgagga ctcagccagg    1680
atggactgac agatttgcct caggagccca aacgccttgc tcattcgtga tcactccaaa    1740
accccaggc cgcagctgcc tggcccgcgt tcaggacagc acgacttcac ttccaggaag    1800
cgcttatgtg agccaggcac gatggaatct ctcaagcgcc atgcaagcgt ccagcctccg    1860
ctgctgagtt ccacgtcggg actgagccgg ggaccgagct gggaccgaag ttccgctccg    1920
ggcccgcctt ggtctggccc cgcgctcgtg gcaccccgcc cagctttcgt tttccactga    1980
atggaaagcg aaacttacag cggcctccgc gccgggagct gggcgccagc gtgcggggaa    2040
```

5386

<210> 6722
<211> 2355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (161)...(1642)
<223> similar to gi4235110 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6722
```
acgcgtccgg cttttccgga gctctgcaca gatgctgggg cactgagcaa acagccctca      60
gtttctggag ctgttccgag tcccgtggag tctccatctg agccctttcc tagtccaggc     120
atcccgatgt tggtggatgg cccatctgag cggccagccc tgtgcttctt gctgttggct     180
gtggcaatgt ctttcttcgg ctcagctcta tccatagatg aaacacgggc gcatctgttg     240
ttgaaagaaa agatgatgcg gctggggggg cggctggtgc tgaacaccaa ggaggagctg     300
gccaatgaga ggctcatgac gctcaaaatc gctgagatga aggaggccat gaggaccctg     360
atattcccac ccagcatgca ctttttccag gccaagcatc tcattgagag aagtcaagtg     420
tttaatattc taaggatgat gccaaaaggg gctgccttgc acctccatga cattggcatc     480
gtgactatgg actggctggt gaggaatgtc ·acctacaggc ctcactgcca catctgtttc     540
accccaaggg ggatcatgca gttcagattt gctcacccaa ctccccgtcc atcagaaaaa     600
tgttccaagt ggattctgct ggaggattat cggaagcggg tgcagaacgt cactgagttt     660
gatgacagct tgctgaggaa tttcactctg gtgacccagc acccggaggt gatttacaca     720
aaccaaaatg ttgtctggtc gaaatttgaa accatcctct tcaccatctc tggtctcatc     780
cattacgcac cagtgttcag agactatgtc ttccggagca tgcaggagtt ctacgaggac     840
aacgtgctct acatggagat cagagccagg ctgctgccgg tgtatgagct cagtggagag     900
caccatgacg aagagtggtc agtgaagact taccaggaag tagctcagaa gtttgtggaa     960
actcaccctg agtttattgg aatcaaaatc atttattcgg atcacagatc caaagatgtg    1020
gctgtcatcg cagaatccat ccgaatggcc atggggctcc gaatcaagtt ccccacggtg    1080
gtggcagggt ttgacctggt ggggcatgag gacactggcc actccttgca tgactacaag    1140
gaagctctga tgatccccgc caaggatggc gttaagctgc cttacttctt ccacgccgga    1200
gaaacagact ggcagggtac ttccatagac aggaacattc tggatgctct gatgctgaac    1260
actaccagaa tcggccatgg atttgctttg agcaaacacc ccgcagtcag gacttactcc    1320
tggaaaaagg acatccccat agaagtctgt cccatctcta accaggtgct gaaactggtg    1380
tctgacttga ggaaccaccc tgtagccact ctgatggcca ctgggcaccc catggtgatc    1440
agctctgatg acccagctat gtttggtgcc aaaggcttgt cctacgattt ctatgaggtc    1500
ttcatgggca ttgggggggat gaaggctgac ctgaggaccc tcaaacagct ggccatgaac    1560
tctatcaagt acagtaccct gttggagagt gagaaaaata ctttcatgga aatctggaag    1620
aagagatggg ataagttcat agcagatgtg gctacaaagt gaggagaagc tagccagccc    1680
tctacaagct gtcttcttgc acacgctgtc acttcctctc actcgttctt gaatcagctc    1740
catgtgccca tgaaatcaat ggcctctgta tggagcgacc ctgtgagaag cacttggctg    1800
gctgagcaaa ttcatcctct ggaaatattc tctctcagcc acagtgacat tgaccctctt    1860
ggttttctcc tctctctggc catttcttcc agtttcccta tttcagagtc ttctcctctc    1920
tctgatctct gtgctgtttc ctcaggactc agtcctgggc tctcttctat tctggtctct    1980
ttattttttt ttttttgtat tttttcgaga tggagttttg ctcttgttgc ccaggctgga    2040
gtgcaatggt gcaatctcgg ctcactgcaa cctccacctc ccaggttcaa gcaattctcc    2100
tgcctcagcc tcccaagtag ctgggattac aggcatgcac caccacgccc ggctgatttt    2160
```

```
gtatttttag tagagacggg gtttctccat gttggtcagg ctggtctcga actcccgacc    2220
tcaggtgatc cgcctgcctc ggcctcccaa aatgctggga ttagaggcgt gacaccacgc    2280
cgctaatttt tgtatttta gtagagatgg gtatgagcac tgcactccag ctgggtgaca    2340
gagcaagacc cgtct                                                     2355
```

```
        <210> 6723
        <211> 1162
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (14)...(961)
        <223> similar to gi4884258 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6723
gggggaaggg gtgggctttg cgcaagatgg cggcgctggg ggtgctggag tccgacctgc     60
caagtgccgt gacacttctg aaaaatctcc aggagcaagt gatggctgta actgcacaag    120
tgaaatcact gacacaaaaa gttcaagctg gtgcctatcc tacagaaaag ggtctcagct    180
tcttggaagt gaaagaccag ctgctgctca tgtaccttat ggatttgacc cacctcattc    240
tggacaaagc ctcaggagga tctcttcagg gacatgatgc agttttgaga ctggtagaga    300
ttcgaacggt tttggaaaag cttcgtccct tggaccaaaa gctgaagtat caaattgaca    360
agctgatcaa gactgcagtg acaggcagcc ttagtgagaa tgacccactt cgttttaagc    420
ctcatcccag caatatgatg agcaagttga gctctgagga tgaggaggaa gatgaagcag    480
aagatgacca gtctgaggct tcagggaaga aatctgtgaa gggagtgtct aagaaatatg    540
ttcctccacg cttggttcca gtacattatg atgaaacaga agctgagcgg gagaagaagc    600
gtctagaacg agccaagaga cggcattga gcagctctgt cattcgtgaa cttaaggagc    660
agtactcaga tgctccagag gaaatccgtg atgctcggca tccccatgtt acccgccaga    720
gtcaggagga ccaacacagg attaactatg aggagagcat gatggtgcgt ttgagcgtca    780
gtaagcgaga gaaaggacgg cgaaaacgag caaatgtcat gagctcacaa cttcattccc    840
ttacacactt cagtgacatc agtgctttga caggggggaac tgttcatctt gatgaggatc    900
agaatcctat taagaagcgg aagaagatac ctcagaaagg tcggaagaaa aaaggttttc    960
ggaggcggcg gtgattatgg gtgtacatat ttgtatattt tttgtcatcc tgagatactt   1020
ctaatttcca ttgtattatt aggtggtttt ccctgggaat tccatttaat tgttttgctt   1080
tgggacatgt gggaaagagc cttactaata aaattgattt tacttatgaa ttaaggcccc   1140
tttttgcaca aaaaaaaga ag                                             1162
```

```
        <210> 6724
        <211> 1372
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (137)...(1057)
```

<400> 6724

```
tttcgtgaag tggcttcatt tcagtggctg acttccagag agcaatatgg ctggttcccc      60
aacatgcctc accctcatct atatcctttg gcagctcaca gggtcagcag cctctggacc     120
cgtgaaagag ctggtcggtt ccgttggtgg ggccgtgact ttccccctga agtccaaagt     180
aaagcaagtt gactctattg tctggacctt caacacaacc cctcttgtca ccatacagcc     240
agaaggggggc actatcatag tgacccaaaa tcgtaatagg gagagagtag acttcccaga    300
tggaggctac tccctgaagc tcagcaaact gaagaagaat gactcaggga tctactatgt     360
ggggatatac agctcatcac tccagcagcc ctccacccag gagtacgtgc tgcatgtcta     420
cgagcacctg tcaaagccta aagtcaccat gggtctgcag agcaataaga atggcacctg     480
tgtgaccaat ctgacatgct gcatggaaca tggggaagag gatgtgattt atacctggaa     540
ggccctgggg caagcagcca atgagtccca taatgggtcc atcctcccca tctcctggag     600
atggggagaa agtgatatga ccttcatctg cgttgccagg aaccctgtca gcagaaactt     660
tctcaagccc catccttgcc aggaagctct gtgaaggtgc tgctgatgac ccagattcct     720
ccatggtcct cctgtgtctc ctgttggtgc ccctcctgct cagtctcttt gtactgggggc    780
tatttctttg gtttctgaag agagagagac aagaagagta cattgaagag aagaagagag     840
tggacatttg tcgggaaact cctaacatat gcccccattc tggagagaac acagagtacg     900
acacaatccc tcacactaat agaacaatcc taaaggaaga tccagcaaat acggtttact     960
ccactgtgga aataccgaaa aagatggaaa atccccactc actgctcacg atgccagaca    1020
caccaaggct atttgcctat gagaatgtta tctagacagc agtgcactcc cctaagtctc    1080
tgctcaaaaa aaaaacaatt ctcggcccaa agaaacaat cagaagaatt cactgatttg    1140
actagaaaca tcaaggaaga atgaagaacg ttgactttt tccaggataa attatctctg    1200
atgcttcttt agatttaaga gttcataatt ccatccactg ctgagaaatc tcctcaaacc    1260
cagaaggttt aatcacttca tcccaaaaat gggattgtga atgtcagcaa accataaaaa    1320
aagtgcttag aagtattcct atagaaatgt aaatgcagtc gacgcggccg cg            1372
```

<210> 6725
<211> 3316
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3317)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (18)...(578)

<400> 6725

```
gcggccgcgg agggacgatg cgcgagtaca aagtggtggt gctgggctcg ggctggggta      60
ggcaaatccg ccctgaccgt ggcagttcgt gacctgcacc ttcatcgaga aatacgaccc     120
```

```
caccatcgag gacttctacc gcaaggagat cgaggtggag ttcgtcgccg tcggtggctg     180
ggatatcctg gacacagcag ggcaccgagc agttcggcgt ccatgcggga cctgtacatc     240
aagaagggcc agggctgcat cctcgtctac agcctcgtca accagcagag cttccaagga     300
catcaagccc atgcgggacc agatcatccg cgtgaaggtc agtgagaaag tgccagtcat     360
ctttggttgg gaaccanagt ggacctggaa agtgagagag aagtatcgtc cagcgaaggc     420
agagcccttg ctgaagagtg gggctgcccc tttatggaaa cttccgctaa gagtaaaaca     480
atggtggacg aactctttgc agaaattgtg aggcagatga actatgctgc tcagcctgac     540
aaagatgacc catgctgttc tgcatgtaac atacaatagc atccaaatat ggctgtcctg     600
gatgggattt gcccaatgtc gtaggtgata gaaaactcgc ctactccact gcagaacttg     660
cagaatgcgt ggtgttaatc tacagagaac tgcagccctt attcagaatt gagcagtgat     720
tgtcagttga tatctctgag taacatttgg gttcagtaac tacagttttc accatttgtc     780
ctcagtctcc tttatgcatc tgcaacttta aggcatagtc catcgatcta cagggtgatc     840
tcatttgaaa gctatgatgg cattgtcgct gagttgacag aagcaactat tgtacaaatt     900
aaaaataacc ataagggaga aaccagaaga attcctctga ccacttacaa ttaaaatatt     960
ttgtcttctt taaaaaaata agtaaaggag aaatattttc ctacaagagt actgaatttc    1020
aggaaatggg atagagcttc taaccagtgt attccgtcaa gtaagataat aacagctgac    1080
ctgccaacag cattacaggg agattctttg ctcagctaac acatttctgt ttttcaaaat    1140
tgatgcttaa ttgtagctgt tattctaatt tgtgacatgg aactaactca tgcttcaatc    1200
cttgatagag caaaactcag aacaggttat gtaaaaatat agtctggctt tagaatttgt    1260
taattcacct gctttgccac agaaaatgga ggctttcaca agggtttgat cagaattaaa    1320
accccaaacc cgccctctgt taggggtggt ctttataact ttactgaaca agagggaagc    1380
aactgtgatg ggaagagatt acctagcctt actaacaaga agcattctaa tagataaact    1440
agtaccatca tgtaaggaag atgaagccat gttgcatcca catgttcccg tttgcagaaa    1500
cctcacagga cagtacgaat atctggcatt tttaagttca ttaaagcagc aaattccttc    1560
tcgcctttaa gggctatggt tgtagtgtga cccgtggcta acctgctttc aaaatcaagt    1620
atttgctgta gcagagcttt attgcaggca ttttaaaaat tgaataacca tgtgaaataa    1680
tttgggctta aaagtgaaca taaattatag agtggaaggt aagggacaaa agccttttac    1740
ctttaatttt cctggagaat tatataaagg ttttcttaga acaattttgc cctgattact    1800
gaagcgtcaa ataaagctgg agtgaaaatt ttgttttgaa aaggtgctca agctctgaca    1860
tttttggttt tcatagtcgt gaagtattta tcatttgcca tgactaatgg cacaggaaaa    1920
acctattcat aagttttaca atcaagtata gaggggtctt cagctaactt agttatacat    1980
aaatgctgaa aagattatct tgagctgggc cttgggagaa gaatttggcc ttcagaactg    2040
caatatcact gagcctgcga tctatacacc accccacatt ttgttggttt cacagtcttg    2100
tgcaagtaac ctctggtctt acgtgtgtaa ctgagagaag agtgtgtgtt tgtgtgtgca    2160
tgtgtgttta ttgttcctaa gaatttggca caagtcagag ataattgcct atactaagaa    2220
tctatactgc agaatatagt gtatcaaaaa cttttttctt ttaaattatt aaagtgtctt    2280
ttatactttt atgaaatcat tggtagcccc ccaagtgttt aataactggc attaagctta    2340
gagggtgaaa aaaaaaaaa agattgatgg ttttttttcat aatgaaaaaa ctgaagagat    2400
acgtgaatga aaccaggcca tagctgtcat aaatctttga cttttgaata tttacattct    2460
tcagtataat tttttataat cctcaattat gaaccacctt gtttatagga caaaaaaatt    2520
taaccaattt tattgaaacg aatttcactg tgtaaaagtt ggtttgattc aaacatgtag    2580
agaagttgta gattcaagat atatgatttc tctatggaaa taaaaatatt tgttagtgaa    2640
ttggttgagt tttgattcct ctaacttctc agaatgattc tttagaattc tataattcat    2700
agcaattttt gacaagtaag attgcaaaat agaaatatct ataaagattc cacagtttga    2760
cattatggct tgctatgcag atgtgaaaat aggttaaata atatgaaaga tatggcagaa    2820
tgtaaagtgg aaaagatgac ctaaaatttt gagttgtatt aatagttaaa aacatttgtg    2880
tcagatgaca gggtgggctt ttactgtcaa gacatgaata agaactgatc tggctgcctg    2940
atgagtgttt ccacgcagcc ctgcatattt agtgaccaag gcatcaagga catcccgaaa    3000
ctgggaaatt ccatatccat ctgggtatgg attatattaa ctcaggctgg gccaaatgga    3060
atgtgtttgt tggaggatat ttacagtaat taaaacactt taggaacagg gaaggttaca    3120
tttgttggcc atacggaaac cttagtgggc tacaggaggn aagtttgacc ttgtgtcact    3180
tattttattt ttatggccct ggtccagact aggccacttn ggataaggtg gaaagttttt    3240
cttaacctgc cctnaaaaat nttatggggt tggtcccaag gcccactttt tcctttagcc    3300
cttgtggata aggatt                                                    3316
```

5390

<210> 6726
<211> 3559
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3560)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (153)...(1812)
<223> similar to gi31867 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6726

```
tttcgtcgcc taggggagaaa acgtctgact ccagccaccg gccttcaagg cacggctttt     60
tattccttcg gctggtcggc ctctcgccct tcagctacct gtgcgtccct ccgtcccgtc    120
ccgtcccggg gtcaccccgg agcctgtccg ctatgcggct cctgcctcta gccccaggtc    180
ggctccggcg gggcagcccc cgccacctgc cctcctgcag cccagcgctg ctactgctgg    240
tgctgggcgg ctgcctgggg gtcttcgggg tggctgcggg aacccggagg cccaacgtgg    300
tgctgctcct cacggacgac caggacgaag tgctcggcgg catgacacca ctaaagaaaa    360
ccaaagctct catcggagag atggggatga cttttttccag tgcttatgtg ccaagtgctc    420
tctgctgccc cagcagagcc agtatcctga caggaaagta cccacataat catcacgttg    480
tgaacaacac tctggagggg aactgcagta gtaagtcctg gcagaagatc caagaaccaa    540
atactttccc agcaattctc agatcaatgt gtggttatca gaccttttt tgcagggaaa    600
tatttaaatg agtacggagc cccagatgca ggtggactag aacacgttcc tctgggttgg    660
agttactggt atgccttgga aaagaattct aagtattata attacaccct gtctatcaat    720
gggaaggcac ggaagcatgg tgaaaactat agtgtggact acctgacaga tgttttggct    780
aatgtctcct tggactttct ggactacaag tccaactttg agcccttctt catgatgacc    840
gccactccaa gcgcctcatt cgccttggac agctgcacct cagtaccaga aggctttcca    900
gaatgtcttt gcaccaagaa acaagaactt caacatccat ggaacgaaca agcactggtt    960
aattaggcaa gccaagactc caatgactaa ttcttcaata cagttttttag ataatgcatt   1020
taggaaaagg tggcaaactc tcctctcagt tgatgacctt gtggagaaac tggtcaagag   1080
gctggagttc actggggagc tcaacaacac ttacatcttc tatacctcag acaatggcta   1140
tcacacagga cagttttcct tgccaataga caagagacag ctgtatgagt ttgatatcaa   1200
agttccactg ttggttcgag gacctgggat caaaccaaat cagacaagca agatgctggt   1260
tgccaacatt gacttgggtc ctactatttt ggacattgct ggctacgacc taaataagac   1320
acagatggat gggatgtcct tattgcccat tttgagaggt gccagtaact tgacctggcg   1380
atcagatgtc ctggtggaat accaaggaga aggccgtaac gtcactgacc caacatgccc   1440
ttccctgagt cctggcgtat ctcaatgctt cccagactgt gtatgtgaag atgcttataa   1500
caataccctat gcctgtgtga ggacaatgtc agcattgtgg aatttgcagt attgcgagtt   1560
tgatgaccag gaggtgtttg tagaagtcta taatctgact gcagacccag accagatcac   1620
taacattgct aaaaccatag acccagagct tttaggaaag atgaactatc ggttaatgat   1680
gttacagtcc tgttctgggc caacctgtcg cactccaggg gtttttgacc ccggatacag   1740
gtttgacccc cgtctcatgt tcagcaatcg cggcagtgtc aggactcgaa gattttccaa   1800
acatcttctg tagcgacctc acacagcctc tgcagatgga tccctgcacg ccctctttct   1860
gatgaagtga ttgtagtagg tgtctgtagc ctagtcttca agaccacacc ctggaagagt   1920
ttctgggctg gctttaagtc ctgtttgaaa aagcaaccca gtcagctgac ttcctcgtgc   1980
aatgtgttaa actgtgaact ctgcccatgt gtcaggagtg gctgtctctg gtctcttcct   2040
ttagctgaca aggacactcc tgaggtcttt gttctcactg tattctttttt atcctggggc   2100
```

5391

```
cacagttctt gattattcct cttgtggtta aagactgaat ttgtaaaccc attcagataa    2160
atggcagtac tttaggacac acacaaacac acagatacac cttttgatat gtaagcttga    2220
cctaaagtca aaggacctgt gtagcatttc agattgagca cttcactatc aaaaatacta    2280
acatcacatg gcttgaagag taaccatcag agctgaatca tccaagtaag aacaagtacc    2340
attgttgatt gataagtaga gatacatttt ttatgatgtt catcacagtg tggtaaggtt    2400
gcaaattcaa aacatgtcac ccaagctctg ttcatgtttt tgtgaattct aggctggtgc    2460
tgcactgaaa tagagcagta agcttgtgat aaaggccaat tccaggtagc tcttgaaggt    2520
gatagccatc tactttccag tggctgccaa ccacagggag tgccagttaa cactggaagg    2580
attaaggcaa ggtcccttct cttgagactc ccctctgaga tctgaaaaat gaagtggctt    2640
aggaacatca gcagtgaaga actgccaaga gttggtgaag gttgtctctt ccgagggcct    2700
tctgaagaca gggctcttga acagacaagt ggaagggctg taccagggat aaaggaaaga    2760
agtgcctgtc cagcagggag cttgaattta agttccatgt atgaagtcat tggctctatc    2820
tgcattttc tgtcattctc ttcatttgtt ttaaggtgga aaattttctt acagttgatg    2880
caaagtatca actactttac cctaccttct cccctttag atgggttctt cctgagtttt    2940
ggagtcttgt atgattatca gtattcccct gtcaaaatca aatcattca ggtttcttca    3000
ctgttgagaa cacctaaatg ttttttatttt tgagaagtgg ggacagagtc tcactatgtc    3060
acccaggctg gagtgcaatg gcatgatctc agctcactgc aaccttcgcc tcctgggttc    3120
aagcgattct cctgcctccg cctcctgagt agctgggatt ataggcacac accaccacgc    3180
ccagctaatt ttttgtattt ttagtagaga cagagttttca ccatgttggc caggctggtc    3240
ttgaactcct gaccttgtga tccacccacc tcggcctccc agagtgctgg gattacaggc    3300
atgagccacc acgcttggct aagaacacct aaatttttat gtttcttggc tcaaaaacca    3360
gttccatttc taatgttgtc ctcacaagaa ggctaattgg tggtgagaca gcaggggagg    3420
aggaagagct gtggtttgta acttgttcaa ctcaggcaat aagcgatttt agctttatttt    3480
aaagtcttct gtccagcttt aagcactttg taagacatgg ctgaaagtag cttttctttt    3540
caganttgca gatagtcat                                                 3559
```

<210> 6727
<211> 1487
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (255)...(1197)
<223> similar to gi4929581 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6727
```
ggaattcccc tttcgacgat attcggcgga agtctgcagc cgagagtcca gagaggagga      60
agctcctgcc ggctgagcgg gcctggagga agtgagcagc ggggctcctg cctcccggcc     120
tggtccccga agaccccaga agaacccgga acttgcttcc attcggaatc cagggaccac     180
cctttgcact cagtaggcct ttgttttcct gcgtggaaag cggttgggct tgggaggcga     240
tggagccgga gttcttgtac gacctgctgc agctccccaa gggggtggag cccccagcgg     300
aggaggagct ctcaaaagga ggaaagaaga aatacctgcc acccacttcc cggaaggacc     360
ccaaatttga agaactgcag aagcctgcag gtgttgatgg agtggatcaa tgccactctt     420
ctccccgagc acattgtggt ccgcagcctg gaggaggaca tgttcgacgg gctcatccta     480
caccacctat tccagaggct ggcggcgctc aagctggaag cagaggacat cgccctgaca     540
gccacaagcc agaagcacaa gctcacagtg gtgctggagg ccgtgaaccg gagtctgcag     600
ctggaggagt ggcaggccaa gtggagcgtg gagagcatct tcaacaagga cctgttgtct     660
accctgcacc tccttgtggc cctggccaag cgcttccagc ccgacctctc cctcccaacc     720
```
```

5392
```

```
aacgtccagg tggaggtcat cactatcgag agcaccaaaa gtggtctgaa gtcagagaag    780
ttggtggaac agctcactga atacagcaca gacaaggacg agcctccaaa ggacgtcttt    840
gatgaattat ttaagctggc tccggagaaa gtgaacgcag tgaaagaggc catcgtgaac    900
tttgtcaacc agaagctgga ccgcctgggc ctgtctgtgc agaatctgga cacccagttt    960
gcagatgggg tcatcttact cttgctgatt ggacaacttg aaggcttctt cctgcactta   1020
aaggaattct acctcactcc caactctcct gcagaaatgc tgcacaacgt caccctggcg   1080
ctggagctgc tgaaggacga gggcctgctc agctgccctg tcagccctga agatatcgtg   1140
aacaaggatg ccaagagcac actgagggtg ctctatggtc tgttctgcaa gcacacgcag   1200
aaggcacaca gggacaggac gccccatgga gccccgaatt gaccctcact gcctccaaag   1260
cccagagcct gcctgtcagc ccagctggag ggcccgaggc tgcagggtgt cctcccacag   1320
tcccgctgtt tcctgtgcat tcgtgacccg cttccctccc accctgtctc ctgtctccat   1380
cgttggatta tctttgaacc cccttgtgtg gatcattttg agccgcctgg ccttgctcag   1440
tttattttaa taaaagtatt tctgggaggg attctggaaa aaaaaaa                 1487
```


        <210> 6728
        <211> 1561
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1415)...(314)
        <223> similar to gi193840 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6728
```
tttttttttt ttgccgcggg aagctcagtt tttattgaag acagagtctg ggagaagaag     60
ggggactccg gaagacagtg atgcggtcgg agattgtgca ggccccgggc cgggaagtgg    120
gcggtgtctg ggtgggcggg accagcgccg gggcggggct acggactcag gctgggagaa    180
cctccccta gcccgcgcga gggcggcacc cgcggaggtc ccgggggggcg ctgggcagtg    240
tggggcgcgg ggattggaca agaggccgac tgaaggcgga gccgaggtaa ggccgggcgg    300
ggcgtggcct cagagggcgt ctgactgctc gccctgggcc tggctctgct gcatttgggc    360
ctgcatcttc tccagcatct cttgcatgcg gcgcagctct tcgtctttct cgcggatcag    420
cttctcggtg tccgccagag gcagcatggg cagcgggatc tctgtggcgc tctggcggga    480
aagcttactg cggctggctc gatcgcgagc cccaggccgg gcccaggctc tgtaggcagc    540
gggcccggta gccctcgtag agcagatcgt gcgtcacctc tttcaggtcc tgcaggtgtg    600
tctgcaccag catccgtcgc aggttcagga aatcgcagtg atgtgggttc tccacctcca    660
cggtcccčca ggagtagcgg cgtcccctca ccggccggtt cccgccatcc ctcaccacct    720
cgcatgatcc cacgactgca aaagggatgc tttccttcat ctctgcatcc tgcctcttga    780
agtcttcatc ttcatcagag tcacattcgg ggaactggta gatgtggatc tcctcttcct    840
tcaactgatc ccggatcttc tgcttgaggg cctgggtttc ctggggcatc agagcatccg    900
ctttgccaat gactgggatg atgttgactt tctcgtgtac tgcccggagg aaggccacat    960
ctaggggccg gagcccccgg ccgaagggtg agatgaagta gaggcagcag tggactcggg   1020
agtcctggat gttcttccgg ttcaggccac tctcatccct aaggtactgc tcaaattgct   1080
cctcgatgaa tttcaccacc ggaagccagc agtcagagca gtccactgag tccccaaagc   1140
caggtgtgtc cacaagggtc agcttcactt tcacacccccc ttcctcaatc tttacgcccc   1200
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ctgccaccat tagcgtgaag tcaaacccct tcttgacaga cttgcggtgc agctggttgg   1380
ggagagcagc aaaacccacg tactccttgt ccatgactcc gccagccatc actgcacctg   1440
```

5393

```
ccgtctctcc ccacttcctc tggtgggggca ggaagctgag tgcggcttca accctccatc   1500
cttcacacat ctggattcca agtcccactg tagctccatc atcgacgaaa tcgtcgaccc   1560
g                                                                    1561
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```
        <400> 6729
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ctcacgggga cctcctaggt ccagggcact gagtaggagg gcacagtgga agacagcaag    120
actgtctcac atctaacaag cacactcacc ctcacccggt tttcctaggt cagagcttgg    180
ggaaagccaa agggtaaggg caggccatgg tcttcttacc ccctggacac cgggcgggaa    240
gacgtactgg atgacaatgg tgccgtactt ctcatagctg ggcagtagga gggtggcgtc    300
cttagagacc agcatccgcc cattctgggg ctggttgccc accagctgcc catagaagcg    360
gccgcacatg gggcaggcct ttttcacctg cagagcccgg gtgatgacag cacctctcag    420
aatgaatgcc ggcacttctc caatgtcttg gcattctgga tctcccccag acagatgggg    480
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gagaggggggt gggcctgcgc ggtgcatctc agggtgctcc cctccacccc ccagaagcca    660
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atggacacac ggtgctcctc ccgaagccgg gccagccggg ctggggtctc tttgctcagg    900
aagtcccaca cgggcttgga cacagtcact ttgttcttgc aggtgcctcc acaggctgcc    960
attctggaca ggacgaacga catttgatcc tgaagagctt agaattggca tgcaggctca   1020
ctcttctttc cctgctccct acttgtaggt cgtgtgacct ggaaagccca tggaagatga   1080
tggcagcaga aatccttcta tttccactca gctgaccagg actttaaac ccagcacagg    1140
cagtgctgtc tgtcagctcc caagtctggc atttagggag gggcgggggct cacacaaggg   1200
ctcagctgga ggggcctgat gtttttccctg agtctggtcg cattgggcta cggggctgtc   1260
tccacaacac ttccaaatgc agctcaaaca gaaagaaggg ccattagtgt gacctccatt   1320
tattgactga tccaagaagg agcagctgtc ccttcatgcc tccatcatcg tcccccaagg   1380
ccagatgcac ctcgagattc ataagtgaaa atggaaccct agagtctcag cccatacagt   1440
ctatccgcga tgcaacactt ctctccccat cacggggggac ccaggaccta ggtgtcctag   1500
gtccaatnnn nnnncgaaat cgtcgacccg gggattccg                          1539
```

<210> 6730
<211> 4569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (23)...(4257)
<223> similar to gi3413884 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6730
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agtggataaa actaccacag tttctgtgag ccagcagcca gtctcggctc cagtgcccat     180
cgctgcccat gcttctgttg ctgggcacct ctctacatcc accaccgtta gtagcagcgg     240
ggcacagaac agcgacagta caaagaagac tcttgtcaca ctaattgcca caacaatgc      300
tggcaatcct ttggtccagc aaggtggaca gccactcatc ctgacccaga atccagcccc     360
aggtctgggc acaatggtta ctcaaccagt attgaggcct gttcaggtca tgcagaatgc     420
caatcatgtg actagttccc ctgtggcctc acaaccaata tttatcacta cgcagggatt     480
tcctgtaagg aatgtccggc ctgtacaaaa tgcaatgaat caggttggga ttgtgctgaa     540
cgtacagcaa ggccaaacgg ttagaccaat tacactagtt ccagccccag gtacccagtt    -600
tgttaagccg acagttggag ttccacaagt gttctcccag atgacccctg tgaggccagg     660
ctccacaatg cctgtgaggc ccaccaccaa caccttcacc accgtcatcc cggccactct     720
taccattcga agcaccgtcc cacagtccca gtcccagcag accaagtcca ctcccagcac     780
ttctaccact cccactgcca cacagccaac ctcactgggg caactagctg ttcagtctcc     840
aggccagtca aaccagacca cgaatcccaa gctagctccc tccttcccct ctccacctgc     900
agtgagcatt gccagctttg tcactgtgaa gcgacctggt gttacaggcg aaaatagcaa     960
tgaagtggcc aaattggtga atacccttaa caccatccct tccctgggcc agagtcctgg    1020
gccagtggtg gtgtccaaca acagctctgc tcattggctc tcaaagaacc agcggacctg    1080
agtcttcaat gaaagtgacc tcttccatcc cagtatttga cctccaggat ggtggacgga    1140
aaatatgtcc acgatgtaat gctcaatttc gtgttactga agctttgaga ggtcacatgt    1200
gttactgttg cccagaaatg gttgaatacc agaagaaagg aaagtccctg gattcagaac    1260
ccagtgtccc atcagcagca aagcccccat cccctgagaa aacagctcct gttgcttccc    1320
acacccctct tctacaccta ttcctgctct gtcaccgccc taccaaaagt accagaacca    1380
aatgagaacg tgggcgatgc cgtccagacc aaactcatta tgcttgtaga tgacttctac    1440
tatggacggg atggtggcaa agtagcccag ctcacaaatt tccctaaggt cgccacatct    1500
ttccgatgcc cacattgtac caaaaggcta aaaaacaata ttcgattcat gaaccatatg    1560
aaacaccacg tagaactcga tcagcagaac ggtgaggtag atggtcacac tatctgccag    1620
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ttccaacagc attacatgag gcaccagaag aggaaatgtt tatcacttgc aacaaatgcc    1980
gggtgcagtt tctctttgcc aaggacaaaa ttgaacacaa gcttcaacac cataaaacct   -2040
tccgtaaacc caagcagctg gagggcttga aaccaggcac caaggtgaca atccgggctt    2100
cccgagggca gccacgaact gttcctgtat cctctaatga tacacctccc agcgccttgc    2160
aggaggcagc accgctgacc tcctcaatgg accctctgcc tgtcttcctt tatcccctg     2220
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gcctggagtg cagcttcgag atcccagact tccctaatca tttcctact tacgtacact     2340
gctctctgtg tcgctatagc acctgctgtt ctcgagctta tgccaaccac atgatcaaca    2400
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atttggtatt caacccctct cacagatcca gcagcatcct gccacgggga ctcacttgga    2580
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tgtctgtgaa gaagcttcga gtagtactgt ttgctctatg ctgcaataca gaacaggcag    3000
ctgaacactt ccgaaatccc cagcgacgta ttcgccgttg gcttcgacgt ttccaggcct    3060
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agtgggtgct aacccagcgc gaacaacagc tacctgtaaa tgaggagacc ttgttccaga    3180
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tgcgtttcat gctgcggcac cacctgactc cccatgcccg gcgagctgtg gcccacaccc    3300
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acaaccagga cttacccttg tctatgattg tggctattga tgagatctct ttgttcctgg    3420
atacagaggt gctgagcagt gatgatcgaa aggagaatgc cctgcagaca gtgggcacag    3480
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tcccagcagg ctgtagctcc aaaattcagc cattagatgt atgcatcaaa agaactgtca    3840
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attctgatgt cctgcttcag ctggtgcttg tctggctggg tgaagtgcta ggtgtcattg    3960
gggactgtcc agagctagtt cagcgctcct tcctggtggc tagtgttctg cctggccccg    4020
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atagtaatca cgtctgagcc aaggagctgg cccattggtc attcacttct gctaaaaaca    4500
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aaaaaaaaaa                                                           4569
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<210> 6731
<211> 3053
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (99)...(2365)
<223> similar to gi1163174 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6731

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ccgtagaggt gcacagagaa caccccctagc atgaacagtg tgaggattcc accagctttt   120
tcaccatgaa ggagacagac cgggaggccg ttgcgacagc agtgcaaagg gttgctggga   180
tgctccagcg cccggaccag ctggacaagg tggagcagta tcgcaggaga gaagcgcgga   240
agaaggcctc cgtggaggcc agattgaagg ccgccatcca gtcacagttg gacggggtgc   300
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tcttctcagt gcctgagatt gtgagggaga cccaggacct aattgaacaa ggggcactcc   540
tgcaagccca ccggaagctg atggacctgg aatgctcccg ggacgggctg atgtacgagc   600
agtaccgcat ggacagtggg aacacgcgtg acatgaccct catccatggc tactttggca   660
gcacgcaggg gctctctgat gagctggcta agcagctgtg gatggtgctg cagaggtcac   720
tggtcactgt ccgccgtgac cccaccttgc tggtctcagt tgtcaggatc attgaaaggg   780
aagagaaaat tgacaggcgc atacttgacc ggaaaaagca aactggcttt gttcctcctg   840
ggaggcccaa gaattggaag gagaaaatgt tcaccatctt ggagaggact gtgaccacca   900
gaattgaggg cacacaggca gataccagag agtctgacaa gatgtggctt gtccgccacc   960
tggaaattat aaggaagtac gtcctggatg acctcattgt cgccaaaaac ctgatggttc  1020
agtgctttcc tccccactat gagatcttta agaacctcct gaacatgtac caccaagccc  1080
tgagcacgcg gatgcaggac ctcgcatcgg aagacctgga agccaatgag atcgtgagcc  1140
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attctttcct aagcagatat aaagatgaag cgcagctgta taaagaagag cacctgagga  1560
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cgaagaagtg gctattaggg tcaaacgctg tagacattat ctgtgtcacc gtggaagact  1860
atttcaacga ttttgccaaa attaaaaagc cgtataagaa gaggatgacg gccgaggcgc  1920
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gcccggagga gcgcaaggag ggtgccgaga agatggttag ggaggcagag cagctgcgct  2040
tcctgttccg gaagctggcg tccggttttcg gggaagacgt ggacggatac tgcgacacca  2100
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gaacgtggcc aagctgctca agtagcctcc gccggcctgc cctgctcgcc cctccacagc  2400
ctcggtccct gcctttagaa acgcgggaca gctgattgct ctccttggcc acacgtgctc  2460
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        <210> 6732

<211> 1704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1699)...(1169)
<223> similar to gi473943 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6732
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catgagttcg agaccagcct ggccaacatg gtgaaacccc gtctctacta aaaatacaaa   180
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gagaagcgct tgaacccaga aggcagaggt tgcagtgagc caagatcacg ccactgcact   300
ccagcctggg agacaacagc caaactccat ctcaaaaaca aaccaaaaca aaaaaaacct   360
tcaaaggtag tatcacaatg tgaataaact gagaatgtgg aagtctccac atttcacata   420
caccatccat aaagaagtat aaaactcaac acatgaatag cagacgatgc tatcagcaga   480
taatagcact tttattagca gtactcagca ggaaaagaaa aagcagttcc tggttgttat   540
ttctgttttc tctgtttctt agggcgtcca ctttttcttct gtcctttctt cttcgtttta   600
aggagaacag ctttttctcc aataaataag cttttaggat gtccttctgc agttttggaa   660
gtaaaattaa gtccctgctt aggtttactg acattcttca atcgtggatt tgaatttttgt   720
tgtttaaatt tttctttatt aacagaacgc atgactctga gttttctccc catgagttca   780
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aacacaacat aggcattaat attttttctga tcaggatgaa ttttacgttt tattgctgcc   1140
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tgtccatact cttttaaaaa cgacttcagc ttcttctttat tacatgtaac aggcaaattc   1260
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acaccaggtt gagaattttt cctttttctgc ccttgtttct ggtgaatttc ttcttctaaa   1440
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ctccagagaa ctgaagaggg acgccagccg accggtgcca cctctggaat ggtgctcgcc   1560
gcgaaataag ctactggcga cctgtccaag cctgtagtct tccggcggac tcccgcgaac   1620
gccgtcgtca ggattctctc cctcctggac acttctcttt ctcttccgtt tgctcatccc   1680
ttccaaggcc attcttactc caaa   1704

<210> 6733
<211> 2863
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(2657)
<223> similar to gi4186038 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

        <400> 6733
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        acgcgcactt gtcggagtga cgggccctgc ggaagaggag gtgcggccca gggcgcaggg   180
        gagccctcgg gagcgggccc ggccctcagc gccgccccgg ccgtgtcccg gaggagcggc   240
        ctgcgccgcc gcgcgagagg aagcacccag gcatgtggaa tatgctcata gtggcgatgt   300
        gcttggcccc ttctgggggct gcctggcaaa gcccaggagc tccagggaca tgtctcccat   360
        aatcctggct ggggagcaac tgggggacct ggctaagaag tacttatggc aggggactgt   420
        tccagctgta cctggatgaa gcggggaggg gtcacagttt tagcttccat ggagctgctc   480
        tgacagcccc caagcagggt caagagctca tggccaaggc cctggaatcc ctctcctgcc   540
        ccaaggacat ggcacccagt cactgtgcag agcacaagga tcagttcctg cagctgagcc   600
        agtaccgcca actgaagacg gccgaggact atcaggccct gaacaaggac atcgaggcac   660
        agctccagca cgcaggcctc cgggaggcag gagggatctt ctacttctca gtgccaccct   720
        tcgcctatga agacattgcc cgcaacatca acagtagctg ccggccaggc ccgggcgcct   780
        ggctgcgggt tgtccttgag aaacccttg gccatgacca cttctcagcc cagcagctgg   840
        ccacagaact cgggaccttt ttccaggagg aggagatgta ccgggtggac cattacttag   900
        gcaagcaggc tgtggcgcag atcctgcctt ccgagacca gaaccgcaag gctttggacg   960
        gcctctggaa ccggcaccat gtggagcggg tggagatcat catgaaagag accgtggatg   1020
        ctgaaggccg caccagcttc tatgaggagt acggtgtcat tcgcgacgtc ctccagaacc   1080
        atctgacgga ggtcctcacc ctcgtggcca tggagctgcc ccacaatgtc agcagtgcgg   1140
        aggctgtgct gcggcacaag cttcaggtct tccaggcgct gcggggcctg cagaggggca   1200
        gtgccgtcgt gggccagtac cagtcttaca gtgagcaggt gcgcagagag ctgcagaagc   1260
        cagacagctt ccacagcctg acgccgacct tcgcaggtgt cctagtgcac attgacaacc   1320
        ttcgctggga gggcgtgcct ttcatcctga tgtctggcaa agccttggac gagagagtgg   1380
        gctacgctcg gatcttgttc aagaaccagg cctgctgtgt gcagagcgaa aagcactggg   1440
        ccgcggcgca gagccagtgc ctgccccggc agctcgtctt ccacatcggc catggcgacc   1500
        tgggcagccc tgccgtgctg gtcagcagga acctgttcag gccctccctg ccctccagct   1560
        ggaaggaaat ggagggacca cctgggctcc gccttttcgg cagcccttg tccgattact   1620
        acgcctacag ccctgtgcgg gagcgggacg cccactccgt cctcttatcc catatcttcc   1680
        atggccggaa gaatttcttc atcaccacag agaacttgct ggcctcctgg aacttctgga   1740
        cccctctgct ggagagcctg gcccataagg ccccacgcct ctaccctgga ggagctgaga   1800
        atggccgtct gttggacttt gagttcagta gcggccggtt gttctttcc cagcagcagc   1860
        cggaacagct ggtgccaggg ccagggccgg gcccaatgcc cagtgacttc caggtcctca   1920
        gggccaagta ccgagagagc tcgctggtct ccgcctggtc cgaggagctg atctctaagc   1980
        tggctaatga catcgaggcc accgctgtgc gagccgtgcg gcgctttggc cagttccacc   2040
        tggcactgtc ggggggctcg agccccgtgg ccctgttcca gcagctggcc acggcgcact   2100
        atggcttccc ctgggcccac acgcacctgt ggctggttga cgagcgctgc gtcccactct   2160
        cagacccgga gtccaacttc cagggcctgc aggcccacct gctgcagcac gtccggatcc   2220
        cctactacaa catccacggc catgcctgtg cacctgcagc agcggctctg cgccgaggag   2280
        gaccagggcg cccatattta cgccagggag atctcagccc tggggggccaa cagcagcttc   2340
        gacctggtgc tgctgggcat gggtgccgac gggcacacag cctccctctt cccacagtcg   2400
        cccactggcc tggatggcga gcagctggtc gtgctgacca cgagccctc ccagccacac   2460
        cgccgcatga gccttagcct gcctctcatc aaccgcgcca agaaggtggc agtcctggtc   2520
        atgggcagga tgaagcgtga gatcaccacg ctggtgagcc gggtgggcca tgagcccaag   2580
        aagtggccca tctcgggtgt cctgccgcac tccggccagc tggtgtggta catggactac   2640
        gacgccttcc tgggatgagg cgcctgtgc cccttgcccg cttcgctcct gtgctttcct   2700
        tcgcccgtgt cttccctccc ttctcggccc cgccacctgc ccagcgtgcc ctggctctcc   2760
        agaaccttct atcccacagt caggccccag agagggcagg acaagccttg tcccgatgcc   2820
        tttgaccggc agctctgtgt attggtggat agatgcagaa aca   2863

                                      5399

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<210> 6734
<211> 2958
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2610)...(307)
<223> similar to gi2052191 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


       <400> 6734
       tctttttggt aataaaaaat ttcttggttt aggcgaaata ctctgtgcaa ccgcagtacc       60
       gaggggggagc cctgcccccc catccaccct cccctttcctt tgcctccagt aggggagagg      120
       agaaggggga atctctgggc aggggtgaat gtgggagaaa actgagaagg gccagggagg      180
       ggagaagtgc cagcagggga gacacaccaa tccatcgctg cagtctcgcc caggtggggc      240
       ggcgcagcgg ccggcagccc gtccagctgg cccgcccccg ccgcccccgc tcctggcagc      300
       ctgttaaagc ttcagctcgt tggctatttt ggaggcaatg tttttgaagg ccatggaggt      360
       gcccgatatc cgcttaaatc gaacccgtt gagagagagc cgcggcagtt tgcacacctc      420
       catctcccac tgcacgaagt cctcgtggcc cggcgtgccg tgcatgcaca gcagcatgta      480
       cttctcatgc agctcgctct ggcagctgtt cgcgtccagc accttgcgga tctcccgcat      540
       catctcgttg ggctccatgg agctcgtggt cttcatactc cacgtgaagc ggagggagcg      600
       gggcttggcc tcccgaaatt cttcctttttc tttgtcgttg ccgccactgc ttcaccacgt      660
       gaggtctgag cgtctccacg tcggtctttg ctttcaggtt cattcaggtt cctgcgtaca      720
       aacttggagg tgaacttgct gaagatgctc ccagaggccc cccgccggcc ctggctgtgg      780
       ccagagggag aggctggggt cacaccgtag ggcaaattct gctggtcccc gcacctgtcg      840
       gagctgccca gcatggaagg tgcttcggct ggacacaccc cggggggaagt tagttcggtc      900
       tggggctcca ccactgctgc tgatgttgtg ggcggatggg gaggcaacag ggacacgctg      960
       gggggctgtg ctgggccgcg gcacctcaca gttactctcc gtggggggca gcccagaggc     1020
       cttgttgggg tgcacggagg ccgacatgga tttctggtgc tggcggggcc gggccgcaga     1080
       gactgcggca gaagcagaag ccgtggaggc ccgggaccct ggcatggtta aggctgtctt     1140
       tgcccattct ggatggaagc cctggccgaa ggctggcccg ctcccaaaag tggggaattc     1200
       ctgcttcgat ttgtgctggt ggagaggacg ctgttcgtgg aggggggttgg ggtggtcttc     1260
       ttcctctcca gaccgggcag ggggctggca ggcaccttgg ctgtgctgct ggctttccgc     1320
       cctgactccc ggtcctcctc aggccgctta ttttctgcgt tgttactctg agtcttctta     1380
       gagtaagaat tagaggtggg aatggcagga ccagcctggt cgctgaagcg ccgctgcttg     1440
       ggattggccg acacgctgcg ctgtaccttg tgggatgggg atggggcgct gctattggtc     1500
       agatcagctg aaggccgggg tttcagggtg atggtgtcgc cttccagctc ggagctcttg     1560
       tagcccagga gcagataggt ggccatcacc tcgttgtatc tctggcccac cagcgagtcc     1620
       tggatctctt cccgtgtata acccatggac accatcagct ctgtccgccg ggggtccttg     1680
       tagtcacggg agtggctccc cgtaaggctt tagttcatca tccttcgtga cccacattca     1740
       tccatcgatc tttcatgatt tgctctaaag tgcctctctt gctgggatta agaatcagaa     1800
       atttcttaag caggttttca cagtccgtgg acatgtagaa tggaatacgg tattttcccc     1860
       tcagtacccg ttcccgcagc tccttgaggt tctgtccatc aaaaggcagg gatccgctga     1920
       ccagtgtata gaggataact cctaggctcc acacatccac ctcgggtcca tcatattttt     1980
       tgccctggaa gagttctggg gcagcataag ggggactgcc acagaaggtg tccagcttgt     2040
       tcccaaaggt gaattcattg ctgaagccaa agtctgcaat cttgatgttc atatcagcat     2100
       ccaagagcag gttttctgcc tttaagtctc tatggacaat aaacttctgg tgacagtact     2160
       gcacagcaga cactatctgg cggaatttgg ctcgagcctc tttttctttc atcctgccat     2220
       gagccactag gtaatcaaat acctctccgc cactagcgta ctccatgaca aggtagagcg     2280
       ttttctcagt ctcaatcact tcaaataatt taactatgtt gggatgattc aaaacccttca     2340
       ttattcttac ttcgcggaat agtttctgga ggctggagga gttcagttga gtcttgtcaa     2400
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5400

```
tgatcttcac agctacctct ttcccagtca ggatgtgtcg ggccaacttc accttggcaa   2460
aattacccct gccaatggtc ttgaggagcc ggtagtttcc aatgtggggc tgctcatcag   2520
cagaggtggc tgagttgcgg ccccgaatca tgttggactt actgctgggc ttggagtcaa   2580
ggtgtcccaa ggtgggccga ctggagaaag ggaaaaggac taccagcgac ttccattcag   2640
cagagcccac agcagaacct gtcaggcagc gagggcaaag tacagaggcc gggaagagcc   2700
aggcctaggg cgggggctgc cggctcagcc agccacccct actcagccag agcaggcgac   2760
accttccacc acctcctcag tgaaaagtag ctaagcagcc aggccgagcg gttcctgcct   2820
gggaacctgg acggtgtcgc aaccgaaacc accactagca gagagactgg gtttggcaag   2880
gagagcaaca gggacaaagc cccgctggct tctcaagggc cagagcctgg tggtcaggaa   2940
gcgcgtgcaa ttccagga                                                 2958
```

<210> 6735
<211> 2314
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (88)...(1621)
<223> similar to gi510408 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6735
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catttcgtat gaactctccc gccacccggg aacagtggct gccaccgttt gtgttttccc     60
gagtttgaat tcttgcaggt gaccaagatg gagttttctg gaagaaagtg gaggaagctg    120
aggttggcag gtgaccagag gaatgcttcc taccctcatt gccttcagtt ttacttgcag    180
ccaccttctg aaaacatatc tttaatagaa tttgaaaact tggctattga tagagttaaa    240
ttgttaaaat cagttgaaaa tcttggagtg agctatgtga aaggaactga acaataccag    300
agtaagttgg agagtgagct tcggaagctc aagttttcct acagagaaaa cttagaagat    360
gaatatgaac cacgaagaag agatcatatt tctcatttta ttttgcggct tgcttattgc    420
cagtctgaag aacttagacg ctggttcatt caacaagaaa tggatctcct tcgatttaga    480
tttagtattt tacccaagga taaaattcag gatttcttaa aggatagcca attgcagttt    540
gaggctataa gtgatgaaga gaagactctt cgagaacagg agattgttgc ctcatcacca    600
agtttaagtg gacttaagtt ggggttcgag tccatttata agatcccttt tgctgatgct    660
ctggatttgt ttcgaggaag gaaagtctat ttggaagatg ctttgcttta cgtaccactt    720
aaggacattg tggcaatcat cctgaatgaa tttagagcca aactgtccaa ggctttggca    780
ttaacagcca ggtccttgcc tgctgtgcag tctgatgaaa gacttcagcc tctgctcaat    840
cacctcagtc attcctacac tggccaagat tacagtaccc agggaaatgt tgggaagatt    900
tctttagatc agattgattt gctttctacc aaatccttcc caccttgcat gcgtcagtta    960
cataaagcct tgcgggaaaa tcaccatctt cgtcatggag gccgaatgca gtatggccta   1020
tttctgaagg gcattggttt aactttggaa caggcattgc agttctggaa gcaagaattt   1080
atcaaaggaa agatggatcc agacaagttt gataaaggtt actcttacaa catccgtcac   1140
agctttggaa aggaaggcaa gaggacagac tatacacctt tcagttgcct gaagattatt   1200
ctgtccaatc caccaagcca aggggattat catgggtgcc cattccgtca cagtgatcca   1260
gagctgctga agcaaaagtt gcagtcatac aagatctctc tggagggat aagccagatt    1320
ttggatttag taaaggggac acattatcag gtagtcctgt caaaaatact ttgagatgat   1380
acacactgtg gatgattgtg gctttttctttt tgagtcatcc taatcagtac ttttgtgaga   1440
gccaacgtat ctaaatggt ggtaaagaca taaagaagga acctatccaa ccagaaactc    1500
ctcaacccaa accaagtgtc cagaaaacca aggatgcatc atctgctctg gcctctttaa    1560
attcctctct ggaaatggat atggaaggac tagaagatta ctttagtgaa gattcttagg    1620
```

```
cagttttata accctttttc ctcaatagcc tgtttcctgt ttttaagatt ttgcctttgt   1680
tgttgaaaaa gggtttcact ctgtcaccaa ggcttagtgc agtgacacaa ttacagctga   1740
ttgcagcctt gaccttccca gctcaagtga tcctcctacc tcagcctccc aagtagttag   1800
gaccacaggt gtgcacctca tatccagata attttttcaa ttttttttttg tagaggtggg   1860
gggtctccct atgttgccca ggcagatctc agactcctgg gctcaagcga tcctcacacc   1920
tcagcgtccc agagtgctgg gattacagtt gtgagccact gtgcctggcc tttttttttt   1980
tttaaacctt ttggttaaac ttctctcttc actgcatccc aatccattta cgggcttgcc   2040
cccttattag ggaagggggg tttggggtaa ccaacagaga ctttcaccta tattttggct   2100
ttgacagaag gaaagaggaa gagtttctat taaaatctgt cacttgagtg atgtcattca   2160
agtcctattt taggagataa aaacaccttt ggggactggt taaagtcccc cagaaactac   2220
aataaagaac aactttttgtt ttaactctta atcactttgt aattttgact caatcctttt   2280
ctggaccgat ttttgttaat aaatatcaaa gtgt                               2314
```


<210> 6736
<211> 2622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (83)...(2325)
<223> similar to gi53466 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6736
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gagtggagat ggcaacacag gcacacaaac caatggtctg gactttcaga agcagcctgt    180
gcctgtagga ggagcaatct caacagccca ggcgcaggct ttccttggac atctccatca    240
ggtccaactc gctggaacaa gtttacaggc tgctgctcag tctttaaatg tacagtctaa    300
atctaatgaa gaatcggggg attcgcagca gccaagccag ccttcccagc agccttcagt    360
gcaggcagcc attccccaga cccagcttat gctagctgga ggacagataa ctgggcttac    420
tttgacgcct gcccagcaac agttactact ccagcaggca caggcacagg cacagctgct    480
ggctgctgca gtgcagcagc actccgccag ccagcagcac agtgctgctg gagccaccat    540
ctccgcctct gctgccacgc ccatgacgca gatccccctg tctcagccca tacagatcgc    600
acaggatctt caacaactgc aacagcttca acagcagaat ctcaacctgc aacagtttgt    660
gttggtgcat ccaaccacca atttgcagcc agcgccagtt tatcatctca cagacgcccc    720
agggccagca gggtctcctg caagcgccaa aatcttctaa cgcaactacc tcggcaaagc    780
caagccaacc tcctacagtc gcagccaagg attaaccctc acttcccagc cagcaacccc    840
aacatgcaca atagcagcaa cccccattca gacacttcca cagagccagt caacaccaaa    900
gcgaattgat actcccagct tggaggagcc ccagtgacct tgaggagctt gagcagtttg    960
ccaagacctt caaacaaaga cgaatcaaac ttggattcac ctcaggggga tgctgggctc   1020
gctatggtga aactatatgg aaatgacttc agcccaacta ccatctttcg atttgaagcc   1080
ttgaacctca gctttaagaa catgtgcaag ttgaagccac ttttagagaa gtggctaaat   1140
gatgcagaga acctctcatc tgattcgtcc ctctccagcc caagtgccct gaattctcca   1200
ggaattgagg gcttgagccg taggaggaag aaacgcacca gcatagaagc ccaacatccg   1260
tgtggcctta gagaagagtt tcttggagaa tccaaaagcc tacctcggaa gagatcacta   1320
tgattgccga tcagctcaat atggaaaaag gggtgattcg tgtttggttc tgtaaccgcc   1380
gccagaaaga aaaaagaatc aacccaccaa gcagtggtgg ggaccagcag ctcacctatt   1440
aaagcaattt tccccagccc aacttcactg gtggcgacca caccaagcct tgtgactagc   1500
```

```
agtgcagcaa ctaccctcac agtcagccct gtcctccctc tgaccagtgc tgctgtgacg   1560
aatctttcag ttacaggcac ttcagacacc acctccaaca acacagcaac cgtgatttcc   1620
acagcgcctc cagcttcctc agcagtcacg tccccctctc tgagtccctc cccttctgcc   1680
tcagcctcca cctccgaggc atccagtgcc agtgagacca gcacaacaca gaccacctcc   1740
actcctttgt cctcccctct tgggaccagc caggtgatgg tgacagcatc aggtttgcaa   1800
acagcaggca gctgctgcct ttcaagggag ctgcacagtt gccagcaaat gccagtcttg   1860
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ctggaggtgc cttactcagt ctgaatccag ggaccctgag cggtgctctc agcccagctc   1980
taatgagcaa cagtacactg gcaactattc aagctcttgc ttctggtggc tctcttccaa   2040
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tcgtgactgc ccctctgttc ctgaaccctc agaacctctc tctgctcacc agcaaccctg   2160
ttagcttggt ctctgccgcc gcagcatctg cagggaactc tgcacctgta gccagccttc   2220
acgccacctc cacctctgct gagtccatcc agaactctct cttcacagtg gcctctgcca   2280
gcgggggctgc gtccaccacc accaccgcct ccaaggcaca gtgagctggg cagagctggg   2340
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aaaaatgtga ttggcttcct ctcgccgtgt tgtgagggca aaggagagaa gggagaaaaa   2460
aaaaaaaaac ccccccccc ccttcccccc ttcccaaaaa aaaaaaaaag gggggggggcc   2520
ggacctttgg cctattttg taataaaaca ctgtctttc aggattgctt catggattgg    2580
agaactttct aaccaaaaat taaaaaaaaa aaaggggggg gg                       2622
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       <400> 6737
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caaacagctt caagtttctg taccaacccc ccagccccgc accccacgcc agtggccaaa    120
cagttaaaac ccaaagcaaa gcatcacgtt tggatgtgaa aaagtcttag aaaattaact    180
tacaaaaaca tcccttatca agtcggtagt ttggcattta ctttaccatt agtcagaaag    240
ctccagctaa aatctaattt ttttaaaaaa aaaatcgaag tttacattat tcatacagat    300
ttgggcattg ttaaaaaata tgcacaaata accacatcca tgcaatataa tttctttaaa    360
aatttaaagc aatataaaag agcagagcta ggtactgaac agaacatttt ggtgtataac    420
cggcagctca aaaattgcca gctgattgga gtaaaaactg attctaagcg tattaaatat    480
gattgattgt ttccatcagc taaggtgcc tatgagtttc tgaaccattt ctagggtgga    540
atgtgctcgc ttgcttctat aatatatgtg atggacacca ctgctcattg accatacct    600
cattataata atgctgtttt acaaacaaac cagaattcac aaagtgcttg gctcttcagg    660
aaactgacat ttccagagat ccctaaacta atcaactagt tctgccaaag tgcccggggc    720
acctgccaca caggttccct gctcctgggg aggaacacaa tctcaaacgc tgccctgggc    780
```

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tccagggagc ccgtgctgtg taagcccaga agaagtctgc acaggtcccg ggaccttgcc    840
aacactaagt cactcagatt ggtctggggc cacgtgctgg gcacccttgg caatcaggca    900
ggtggtgtag cactgtggcc agctatgccc tctatgtggg gggtggccca ttggtgtacc    960
tcagcatggg gtaaaaggac cgggcaaaag ttgttggcct gagtgcagct gtagtcttct   1020
tcggaggagg gcagcaggca ggccaggagc agcagcagca ggaggagcag ctgcaggggt   1080
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cgtaactgtt tgagtttctt ctcaaataac atgcaccttt tcttcagctt caatacagtc   1380
ttctccatgt cccttaatga gaaggctgtt tgaaatctcc tgtaacatgt ccacttgagg   1440
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taaccacagc agcagatttt gactcaactg gtggaagtcc tggcactgca tgagcgactg   1620
tcgtaagccc cctctccagc tgtccactgc gccctgtgct gcttcccaga gcaggctcag   1680
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ctgcagtctc ttcactctca gttctatttc ctggatatca gagggaggct ttgccatctt   1860
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gttcagctgt tgcaaatttt gttttatttt gagcttattg tgaaagctcc tgtgcttgaa   1980
tcatctccca tctgtcgaag gcacctgact gctgctctgt gataccggcc agtcccccgt   2040
cttcctgctg tgggttgcca ttcaggactc gcgggccttc tttgccacca tccgtgcctg   2100
gaggtaatag tagctttcca tagggtggtt tataagggt gctggacgca gggggaacag   2160
gtggaacatt cctgtcacct tccatttgct tgtagtgatg ctcgggacag gaagggctgt   2220
cgggaacatg ccacgagtgg ccatccgaaa tggatttacc tgacagtgcg cttgtagtat   2280
tgggcctcct cgtcctcttc cgtgagagga ggaggncccc ccacgtcgnc ttgtgtggtc   2340
ccactccagg gggatgggag tccacgctga caggggtctc gcagccagac cgctcgtgcc   2400
ctggggccac tagatgacac agggactgag gagatgacgg ttcctcgctc tctccccgtt   2460
tacgccaaga atcagtctgg atttctctgg ggtcttccat gtctgtttca ttctcagagg   2520
cctccttttc atcttccaag cccggagtgc aggaggtgag ccgccggtgg aaccgggaga   2580
cccttccaaa cacctcctgg cagtagcggt ggagttcctc cagctcatcc tcaatcagca   2640
cagcatccag ggggctcgct cttctgaatc agctgctccc caaacacaat gagctgatca   2700
atcttgttgg tatttaatgt aatttcctgt tgaaagccat tcagttggcg catcttgtca   2760
tcggcgtcac tctctgagaa gtgctccacg ttggtcagct gcaggtccat ctctgtgagc   2820
cacaccagaa tgctctccct ggtgccctca aattcttccc tctggttggt gaaatgcctg   2880
agtctccgca ggacggctgt gacccgcctc tgaaggttgt cccagcgctg gttgccctcg   2940
tggaccatct gcttcagcct gctggccgtg tctgtgcggt tctcccgggc cagccgccgg   3000
tactgcttgt tgatgagctc cagctgagtg agccgctcat gaatctgccg ctgaaaggcc   3060
tcaaacctct tcagttcctc tttggcactc gtgtacaaca cctctgagga atttgggcag   3120
gctgccgtcc tctcagctga cttgagccag tcctcaaagc gagaatagtc gtctaaaaac   3180
ttctgccaca ggcgccacgt ctcctcgatt ttcatgcgcc gctccatgga catggcacaa   3240
atgttcctcc agcgtctgtc caggctcctg gtggtctgct ggatcgagtc acactcggtc   3300
tcatttgcac aggcatcgga gtcgtgcagt aggacgtcac agatgttaaa cacggactcc   3360
acccctgcgc tgtgttgttc aatatctcgc tgtagatcct gctgctcagc gagcctcttc   3420
tggatctctt gatcatcgca gacatcataa acaacaggct tggaaagctc agactcaatt   3480
cgagccaacc aggtgcgaag gttgctcatg ttttgtcca actgctgaat aaaagcaaag   3540
gtctccttca gcttcttcac ccttgatccg atgacatcaa aaagatgttg ccaacgatcg   3600
ttaattttgt tgagcttgtc atcgatctca gctgctcttg atttgttgct ggccttgatc   3660
aactggtcac ccatctgctt taactgtaac ttgtttttcac taaacaagtt tatttcttcc   3720
atgcagtcct tctgtaactt ttcaatcatt tcttcaatac taatgtccgc tgtctgtaga   3780
actttgtttt ccatctgcac cagccaggca cacaactctt tattttttc attgaataca   3840
acccatgtat tgagtctgtc ttcaatctcc tgtttacgta tggccaccct taagcagagg   3900
tcctcccatt gtctgtgcaa atgctctatt tgctccttca aaaccatcac atcttccacg   3960
agaacgtgcc gggttaagtc cgccttcata gtttgaagtt ctttcaagtt ctgagtccag   4020
ctagccaaag actgttctag ttccttaatc agctcttttt cgttatggag gtcctcgtga   4080
agctctggaa gaggatcttc actttgtgcc tttaaaactt gcagcctgct tttcaactcc   4140
ttgattttct tttcacactg gtcccaggtc tctacagtgc tctggaactg cttaatcatc   4200
```

5404

```
tctgccagct ggggctccat gtctttccag ctgtcctgaa gttgactgat tctcctaccc    4260
acagactctt tagtttttcag gtcagttgtg agcagtaact tttctccagc ttccaaggtt    4320
agggcacagg tagttcgcct cctttgaaaa tgaatttctt tattcttcag ctcatggatc    4380
agacttctgg tttggtatag gctgaagcgc tcctggccct tcactgcaga tagcaggtgg    4440
ctggtgtcag tgaggaagcg aaacaagttc tccacagaag tagtgaaatc ttgccactgc    4500
ctcaccagcc catcaacgtc acccttcctc tgccgaacac cctggacagc attctgccac    4560
cgatccgtca gctttgagaa ttctg                                          ·4585
```

```
        <210> 6738
        <211> 1209
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(1210)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (951)...(0)
        <223> similar to gi205755 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6738
ttttttttttt ttgacacaag actaattact ttattaggtg cattctataa gttgaagagg      60
agaattttttg gcaaataaat aaataaataa ataaataatc aaacagagac tctggggccc     120
gaggagctca ggaaaacgga agcggagtct ttgcatagtt ctaaatgaac aggaggtggc     180
agcagtaggc aacgcggatt ctcggcggaa atgcagcact tgcaaaaacc agggacagaa     240
ggctttgaga aagaggagaa ggtcagaagg tgactaacta tttctttttc gtagagacca     300
tggtgtggaa cattcgtcct ctctaccagg ggcaggatgc cgcgtcctac atgatctgcc     360
tgggcatccc gtaccctgtc atgcccgcct gggaggctcc cttgttgctg cccatctgca     420
ggcctattac gttctgtccc tggcgaagct gctcctcgga aaagcctctc cgattctgct     480
gggctttcct gtgaaaccag gatggctctc cccgatagca gccatcatcc ttggtgactg     540
caacgctgcc taaagccatc agggtcctct gcacagctgc catgtccttc ccttcccata     600
gatccaccgt ctgaaagatg tcggtggttc tgacaccata ggtctccgca gctttttagga     660
actgggagat ttgctccatc tgcttaaaag ccatctttga ctctgagatc ttgggtatgg     720
gctcttgtcc tggtgggtat aaactattta tcagcttgca caggaccgtc ccgtccatta     780
accatttctg aaaatgggcc ctgccggggg gcgggtgctc tatgtcctcg gcgcactgca     840
ggatgatcca gtccaccagc ttgttctcca ggtccgcatc atacttctgc tcgatcttct     900
cctgcacctc tcggcttaag ccatagctcg ggccctgtt agccatctaa tcaagtctga    · 960
accccccaggc agcaaggggg atgggtggcg gacgtttctt cccgcttctc agtagcactt    1020
tgcaaaggca gaaacgatga gatcgggaag agcaggtaat tagcaggcag ggaggaagcc    1080
tcctttcatg ttgaactgca gccgctgctg cctcgcgcct ggaagaatgg cacattgatt    1140
tgattttctc atggctgagt gggctcaacc agggccgttg ctaagancccc tcgtgccgaa    1200
.ttcctgcag                                                           1209
```

5405

<210> 6739
<211> 2160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)...(795)
<223> similar to gi407468 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6739

```
ctcccggttc gacgatttcg tggcgcagcc gctgcccgag ccgcagccgc agccggagcc      60
cgagccgcgg ggcgggtgcg aagatgcaca cgacccagaa ggacacgacg tacaccaaga     120
tcttcgtcgg ggggctgccc taccacacca ccgacgccag cctgcgcaag tacttcgagg     180
tcttcggcga gatcgaggag gcggtggtca tcaccgaccg gcagacgggc aagtcccggg     240
gctatggatt tgtcaccatg gctgaccggg ctgctgccga aagggcctgc aaggatccca     300
atcccatcat tgatggcaga aaggccaacg tgaacctggc atacttagga gcaaaaccaa     360
ggatcatgca accaggtttt gcctttggtg ttcaacaact tcatccagcc cttatacaaa     420
gacctttcgg gatacctgcc cactatgtct atccgcaggc ttttgtgcag ccgggagtgg     480
tcattccaca cgtccagccg acagcagctg ccgcctccac caccccttac attgattaca     540
ctggagctgc atacgcacaa tactcagcag ctgctgctgc tgccgccgcc gctgctgcct     600
atgaccagta cccctatgca gcctctccag ctgctgcagg atatgttact gctggggggct     660
atggctacgc agtccagcag ccaatcaccg cagcggcacc tgggacagct gccgccgccg     720
ctgcagcagc tgctgccgct gcagcatttg gccagtacca gcctcagcag ctgcagacag     780
accgaatgca atagaccagc catctgatca aagttgaatt gttttctctt tccctcccaa     840
ttttccaatt tttagtagct aataagagag ttaacattga cttaacagct ttaaaaaaaa     900
aaacagccat gctattgtga agcagagtta ttattttggc aatactccag gtagtgttct     960
agatgagaaa gaggtaagaa tgaggggaat gggcacaatt ttgggaatca atcccaaaga    1020
gcctgagtaa atgaaaggcc actacgaaat gacgccagga gtaacaacgg aaccttcact    1080
tttgtaccgg gattaatatt tgtgctcttg ttatagtatc agggaagcaa actgcctttt    1140
acaagttaga aaatgctgtt tgaatctagt tgaaccaggg aatacagagc gagcaatatg    1200
tagcttgaat tacatttaaa agcagatttt ttacaaacaa aatggcgaaa gcactgattg    1260
tcatttttag cagtcactta aggcctatag aacttttttc aagtcggaag gtcctgttct    1320
tactatctca aaaatgggca tcgaacaatc aatctaggag cgtggcagtg ggtaaaatgg    1380
tggacaggca ccaaagctat tttctcatct gtcctgtgga tgagtggaac tgtggaacaa    1440
gtgatgtgga attaatgggt gcaacagctg tacagacaat caataacaca cacagttctg    1500
gaaagaacac atcacttgtg cttgtttgat gagcttgtca cattctaatc cctctcccca    1560
tcctgtttca attttgggaa acttgtatct gctggtgtca gcaattctga ttctgaaata    1620
ggatcaggct tttactacaa cagccttctc tttctattta ttgtgtcgac tcgtggctta    1680
tgaataaagg caggcaaagt ttgcagaact gtcttaagga catttatttt ttttcccttt    1740
ttaagtaatt ttacacttta gtatctattt cagagtcata tttaaaacta tttattagtg    1800
actacagtac atgagacaac aaggttactg agattacaat tcttcaaagg ttaatgataa    1860
tgtggtttat actgtgcctt aatagtaatg ctatttaaga tatttatttt taagttttac    1920
tatgctgcac tctaaagaaa ggaactttag atgtgacact gtaaaattat gtattcatct    1980
catggcataa attatttagt aagtctagat gtagcgtatt aaatattaac ctattcaact    2040
aaagatgttg acttgggatt tatttaaatt catatgtgca ctgtataaga gagtactctt    2100
acattaacac attttagttt agtttttaga ttttttttta aacgatatat tgctagtttc    2160
```

```
<210> 6740
<211> 1751
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1680)...(602)
<223> similar to gi4929619 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


      <400> 6740
gtatacattt tcccacaaaa tggttgtaaa gatttaagtt attttaattt aatgttgatt       60
aagaacccta gatgaaactg gtcagaacct gtaaattact tagtttatat ccactttgag      120
caggtatcaa atgatttagg atccttaaaa ttacattcta ataattaagt tatgtggaaa      180
aagtaaggct ggggaagtcg tgattaatag ttttcaaagg gccatttttt aaaatcctct      240
gggcattttc tttcagctgt ttgttagttt ttgctttatt taaagcatat ttaagttatt      300
ttaatgtggt ttaggggcaa aatgtgcaga tacttcattt ttgtaagatt gtaatagatg      360
ctgtttatac taaacatgtc atatctatct atacagtata tattaaaaga aagcttgtac      420
tgtatcttat ttgatgatat ttatttttctc tgccaagctg tatagtaaaa ggaaaataag      480
tcacatctgg tcattggcat ttgtatcgtc attctgtaaa gacaaaagag tacctatata      540
agaagctcca cgtagtgcaa atcgacatct ggtaggctgc tcgcccccag gcagcagcta      600
tgagtctgta attctctgcg tcatcctctt cttttttcttc atttttgctt tttcttcgct      660
tgagttcttc tctgaaatta tatgcaaaga gttgtggggt cttcatcaca cattttttctg      720
gtatacatca cagaggctcc ttaaaagtgt gaggatggga gagctggcgg ggccgaagga      780
gtaggggtct atgtctgccc aactctaaca agcctgcccc gtgctttcca aggcgctgcg      840
cttcagggaa taacattctg agccctcgat ggcagtattt ccttcggaac tgaaatacat      900
tctgaaccac ttttttccacc agcttgaatg gctgctctat cttgggctgt atcaagggag      960
tgaagtgcac cacgcccacg tccaccttcg ttgtaagcaa acatattatc attctctggt     1020
ttggggacaa aagcttgtcc tggaattgta aagatgtgtc gaacattgca gaggtactga     1080
gccataacag agaggcgact acgctgtttg cttcctgtat tggctgcaag tctctctgcc     1140
acttcctttt gaaaagtcaa agtcatctga gttctgccat aaacaaaagg tccatctcta     1200
caggaaatat tttcaagcca cttgataatc agtggagttg aaacactaaa aggcagattt     1260
ccaataatat gtacatttgg aggatcatct tcccagggtc ttttaagact ttctgaaaaa     1320
gccttttcta ccttaaatgt caagacatct ccatgaacaa ttctcagttt cccaggtgct     1380
gcatcagaaa gcatctgtaa tccaggaata aatcgagtgt ccttttcaac caccagaagt     1440
tcagcgacgt cggcattaag aatagatctt gtgattcccc ctggcccagg gcccacttcg     1500
taaacataag catttgtcag attgccagct ttccttacaa tcttatctgt cagcctcaag     1560
tccaggagga aattctgtga tagctgcttc gctgcttgca gtcttaacaa cttaatgatt     1620
tctcgaatcg tgggcaacgg agggagacgg caagtgctga gttttccgga ggcagccatg     1680
atacgcggca agcaccatcc acccctacct cacccaggac cttcaccgcc gctcccactt     1740
cagattgtaa c                                                          1751




<210> 6741
<211> 1459
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
```

<400> 6741

```
tttcgtgtcg gatgctgaga atgactgacg atgtgatgag gggcggattg aacgagtcac     60
aggccagctg gccaggagca aaatcggcat agctgtctga ctcgatggct gtacgtggtt    120
acggactgtc tgccctgata gaatctcagc ttcaacgtat cagaggagac tgacttgacc    180
aatggtgggg atgagtcgcc tgagaaatga cagactggct gacccactga caggtggctg    240
cagcgtgtgt tgcaagtctt cttggaatca gctgcaggac ctgtgccgcc tggccaagct    300
ctcctgccct gccctcggta tctctaagag gaacctctat gactttgaag tcgagtacct    360
gtgcgattac aagaagatcc gcgaacagga atattacctg gtgaaatggc gtggatatcc    420
agactcagag agcacctggg agccacggca gaatctcaag tgtgtgcgta tcctcaagca    480
gttccacaag gacttagaaa gggagctgct ccggcggcac caccggtcaa agacccccg     540
gcacctggac ccaagcttgg ccaactacct ggtgcagaag gccaagcaga ggcggggcgc    600
tccgtcgctg ggagcaggga gcttcaattg ccaagcgcag cattcttggg gacgcatcac    660
tgtagagaat gaggtggacc tggacggccc tccgcgggcc ttcgtgtaca tcaatgagta    720
ccgtgttggt gagggcatca ccctcaacca ggtggctgtg ggctgcgagt gccaggactg    780
tctgtgggca cccactggag gctgctgccc gggggcgtca ctgcacaagt ttgcctacaa    840
tgaccagggc caggtgcggc ttcgagccgg gctgcccatc tacgagtgca actcccgctg    900
ccgctgcggc tatgactgcc caaatcgtgt ggtacagaag ggtatccgat atgacctctg    960
catcttccgc acggatgatg ggcgtggctg gggcgtccgc accctggaga agattcgcaa   1020
gaacagcttc gtcatggagt acgtgggaga gatcattacc tcagaggagg cagagcggcg   1080
gggccagatc tacgaccgtc agggcgccac ctacctcttt gacctggact acgtggagga   1140
cgtgtacacc gtggatgccg cctactatgg caacatctcc cactttgtca accacagttg   1200
tgaccccaac ctgcaggtgt acaacgtctt catagacaac cttgacgagc ggctgccccg   1260
catcgctttc tttgccacaa gaaccatccg ggcaggcgag gagctcacct ttgattacaa   1320
catgcaagtg gaccccgtgg acatggagag cacccgcatg gactccaact ttggcctggc   1380
tgggctccct ggctccccta agaagcgggt ccgtattgaa tgcaagtgtg ggactgagtc   1440
ctgccgcaaa tacctcttc                                              1459
```

<210> 6742
<211> 1542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1291)...(539)
<223> similar to gi5802176 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6742

```
tttttttttt ttgaccaaaa aaggcaacta tatttaaagt aaatgtatgt gattcttgtc     60
acaacaaata tttgcatttt ctcagcggca gctgcgggac ctgggtggct ccgacacgcc    120
aggcccggga aggacccggc accctcccct gaacttcctg gctactcatt tccagcgaag    180
tttaatctat ttttaataat cgttcagttt tcaaggaaat ggaggagctg tttttttccca   240
```

5408

```
cggagcggcg gccctgggag gggccgggcc cagaggttcc ggccgcgatg ccgtcagcgc      300
cttcggcaga gtgactgaag cgagatttcg ttcagcgcgt tgtactcgtt catggggtcc      360
atgtagctct ccagctcctc ggcggtcacg atgccgtcgt ggttggagtc aatgagctcc      420
tcaaactcct tttttcttgt ctttcaaccc agttgtcggt caatgtcctg gaccctgctg      480
gttctccacg gtgcccacgg gcaagggaga tgaactcggg cacagagagc tgcttgtcac      540
cgtcctggtc caggtcccgg acgatctcct tcaccatgaa cctgaagcat tcccccggct      600
gtgctcgggg tggaggaacg acaggaactc ctcctccgtc agcagcaggt ctgcaggggg      660
ggctgtccgc ctgggtacca gcggtccttc aggttctcca ggacttcctg tgtttcctcg      720
tccactttga gttcctcgtt gagcctgatg gcgtcggcaa cctccttctc gctatggcct      780
ttactcgcca aaaacttcac cttatactcg tcccaagaca cgtgaccgtc cccgtcaggg      840
tccacggcgc ggaagtgtgt cttgctctcc tccatggcct cctggaagtg ctcggccgtc      900
ttctccatga tccagcgctg catctccttg gcactgatct tccggtcagt gttcacatcc      960
accttggaaa agatgaccat cagcttcctc cggctccgcc gcggctccgc gtcctcatca     1020
aagccaccca ggtccttgcc taggaagacc tcctggtgga agccgcgatt gaggtgcccg     1080
tccatctcca gcttcacccc gttcaggtgg tctgggggca ggatctcatt ctcctccctg     1140
ttggctactc tctctcgagt ggacgagtgg ttggcaggcc cgtgcagacg cgtccatcag     1200
aaggactgcc cccaggagcc agaggcagca cggagccagg ccaatgaggg gaccccacct     1260
ggacgccatc gccacccagg gccagaccat ggggcgggct gcagggtgtg ggccaggtgc     1320
tgggaggggc aggggcaggg gcagaggagg aagtgaggtc ctggctccaa tccaatcccc     1380
gggcaccacg gagggctctg tgtccccagg acggccgcag gatggggaca agcagctcac     1440
agtcggtctg cctccccgcg ctcgggatcc gaggaccgga gcgaagcgtc agtgacgccg     1500
ccaacgggcc cggatcaggc cactgccatc tttcttgcgt gc                        1542
```

<210> 6743
<211> 5830
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (155)...(1655)
<223> similar to gi4160197 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6743
```
cggccgcggc gacagctcca gctccggctc cggctccggc tccggctccg gctcccgcgc       60
ctgccccgct cggcccagcg cgcccgggct ccgcgccccg accccgccgc cgcgcctgcc      120
ggggccctcg ggcgcccccg ccgcccgcct cacgctgaag ttcctggccg tgctgctggc      180
cgcgggcatg ctggcgttcc tcggtgccgt catctgcatc atcgccagcg tgcccctggc      240
ggccagcccg gcgcggggcgc tgcccggcgg cgccgacaat gcttcggtcg cctcgggcgc      300
cgccgcgtcc ccgggcccgc agcggagcct gagcgcgctg cacggcgcgg gcggttcagc      360
cgggcccccc gcgctgcccg gggcacccgc ggccagcgcg cacccgctgc cgcccgggcc      420
cctgttcagc cgcttcctgt gcacgccgct ggctgctgcc tgcccgtcgg gggcccagca      480
gggggacgcg gcgggcgctg cgccgggcga gcgcgaagag ctgctgctgc tgcagagcac      540
ggccgagcag ctgcgccaga cggcgctgca gcaggaggcg cgcatccgcg ccgaccagga      600
caccatccgt gagctcaccg gcaagctggg ccgctgcgag agcggcctgc cgcgcgggcct      660
ccagggcgcc gggccccgcc gcgacaccat ggccgacggg ccctgggact cgcctgcgct      720
cattctggag ctggaggacg ccgtgcgcgc cctgcgggac cgcatcgacc gcctggagga      780
gcttccagcc cgtgtgaacc tctcagctgc cccagcccca gtctctgctg tgcccaccgg      840
cctacactcc aagatggacc agctggaggg gcagctgctg gcccaggtgc tggcactgga      900
```

5409
```

```
gaaggagcgt gtggccctca gccacagcag ccgccggcag aggcaggaag tggaaaagga      960
gttggacgtc ctgcagggtc gtgtggctga gctggagcac gggtcctcag cctacagtcc     1020
tccagatgcc ttcaagatca gcatccccat ccgtaacaac tacatgtacg cccgcgtgcg     1080
gaaggctctg cccgagctct acgcattcac cgcctgcatg tggctgcggt ccaggtccag     1140
cggcaccggc cagggcaccc ccttctccta ctcagtgccc gggcagcagg caacgagatt     1200
gtactgctag aggcgggcca tgagcccatg gagctgctga tcaacgacaa ggtggcccag     1260
ctgcccctga gcctgaagga caatggctgg caccacatct gcatcgcctg gaccacaagg     1320
gatggcctat ggtctgccta ccaggacggg gagctgcagg gctccggtga gaacctggct     1380
gcctggcacc ccatcaagcc tcatgggatc cttatcttgg gccaggagca ggataccctg     1440
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5410

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tgctgcccct gagcacatcc aagcagacag ggaaagagga gtcagacatg gcccagtcac    4500
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·tgcaacatgt gtgcgtgtgt gtgcgtgtgt gtgtgtgtgt atgtgtgtgg tgcatctgtg    5760
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            <210> 6744
            <211> 1021
            <212> DNA
            <213> Homo sapiens

            <220>
            <221> misc_feature
            <222> (903)...(276)
            <223> similar to gi4929729 in the genepept database release 114,
                  Run with FASTXY 3.3t00, default parameters



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caagttgtat cacatttctt gctgaagttc agacaattga aaacaaacag actcacatct     180
agggaaatca acagaccaac aatggcaaaa cacaatacaa tgaaatggaa aaataatgtt     240
tgttacagga gtgcagcaat ttagagagtg tctcaggagt gtggctcact ggcagctgca     300
gctatgttag tgcttctttc tgcctcaagt tcagaaacaa gctggactat ctcagggtga     360
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ctcctttctg aggtcctctg gtaggagctg ggttatctgc ttcatagctt cctcttctcg     600
cctatgtttt tcttctttgg ggatgttatc tgctggtgct atgtccccaa cgatgcattc     660
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gatcaccata gccataactg ccatccggta catgtgatct gaaacgctct ccggcctctg     780
gacatttctg tatacccagc cagttcgtgg gactctcttg agctgcccta ccagccgcag     840
gaactgcagt agggaccgag ccccgtggcc cgagaaggtc gcagaggaga ccgaagccat     900
gcggccaccg accccggctg ggcggagcag gccgcggcga agctcctccc cgtcctcctc     960
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a                                                                    1021
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<210> 6745
<211> 1209
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (196)...(1099)
<223> similar to gi4239974 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6745

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cgcgcccgcg ggccatgccc cactgactct aagtgggcac tgccccggct ccgggagggc     180
gagaccgagc gccggccatg ggaagcttcc agctggaaga ctttgcggcg ggctggatcg     240
gaggtgcagc cagtgtcatc gtcggccacc ctctggacac agtcaagact cgcctgcagg     300
ctggcgttgg ctacggaaac accctcagct gcatccgcgt ggtgtacagg agggagagta     360
tgttcggctt cttcaagggc atgtccttcc ccctcgccag cattgccgtc tacaactccg     420
tggtgtttgg ggtcttcagt aacacgcagc ggttcctcag ccagcaccgc tgcgggggagc     480
cagaggccag tcctccccgc acgctgtcag acctgctcct ggccagcatg gtggccggcg     540
tggtctctgt cgggctggga gggcccgtgg acctcatcaa gatccggttg cagatgcaga     600
caccacccgt ttcgggacgc caacctcggt ttgaagtcca gggcagtggc tcctgcggag     660
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aaaggtgtcc tggactgtat ctcccagagt taccagaagg aaggtcttaa agtgtttttc    1020
agaggcatca ctgtgaacgc ggtgcggggc ttccccatga gtgcggccat gttccttggg    1080
tacgagctgt cgctgcaggc tatccgcggg gaccacgcag tgacgagccc ataagcgcca    1140
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ccttggctt                                                           1209
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<210> 6746
<211> 3138
<212> DNA
<213> Homo sapiens

5412

<220>
<221> misc_feature
<222> (2906)...(2172)
<223> similar to gi5262555 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


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    gggtcaagtt tctgtaaact aaacagtcat ggcagcaagg tccaacttta gaaacaaaag       180
    ttcattttca ggttctttat gacactgtag dacaatacaa cacattttga agtcggaccc       240
    aatgtttgtt ttctactata tgaaatcagg acataagatg ctgcttgcta ataccagctg       300
    ttacaagaag acagagttgt cgccatgaaa taaagctctc taggaagcac acagaaataa       360
    aaaggtcacc atgcatacca agaacaaccc atcagtcaat aaactaaaca ctttggaaat       420
    aaaaacttaa cacatcattt cattttgtta aaaataaaac gtatcactaa tctgtgagtg       480
    tcttgttctg tcacaatggg cattgtgata aatcagggtt tctcaatctc ggcactactg       540
    atattttggg gtggatgatt ctttgctgtt gtaggatgtg ctgtgcatgg tagaatgttt       600
    ggcagcattc ctggcttgta gtagcacccc caagtcatga caatgaaaac tgtcaccaga       660
    cattttgaa tgtccctggg gtggagtcag ggggcaaaat cacctcctgg ttgagaatga       720
    ttgcaataca cagataccta caaagaggaa caattctttc tcaaaattta ttgtgcagaa       780
    ttttaagact atacccaggg ttgctcattt attaaagcaa agacttagta aggtaagtgt       840
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    ttgcagatag actagtgcct ctttttttgtt ttgtttttgtt tttaaacatt ttacagccat       960
    tatccaacag acagtaaagc agtggaccag ttgctgtgtg ggtataaagc aaacggtctc      1020
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    ccagaaggtg aggggtctgt gtttgtgcct tcccaattcg aacctgggct ggtgatctcc      2640
    tcttctctgg actctatgga aatgttctta ggaagcagag atgttggggc tgatgctgta      2700
    actgggagca ccgagttgtt gtgagtgccg ttggatgggg aggcagtgtc tgcatcagtg      2760
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ttcaggccac atctctctct gggaatgggt cgtggacaga tcctgtgttc ttctatgtcc    2820
aggccaaaag atatgaaaac ttcatccatc tgatcatcgc tctgcccgtc gctgtcctgt    2880
tgatcgtggg ggggttggtg attatgctgt acgtcttcca tagaaagaga aataacagca    2940
ggctgggggaa tggagtgctg tatgcctctg tgaacccgga gtacttcagc gctgctgatg    3000
tgtacgttcc tgatgagtgg gaggtggctc gggagaagat caccatgagc cgggaacttg    3060
ggcagggggtc gtttgggatg gtctatgaag gagttgccaa gggtgtggtg aaagatgaac    3120
ctgaaaccag agtggccatt aaaaacagtga acgaggccgc aagcatgcgt gagaggattg    3180
agtttctcaa cgaagcttct gtgatgaagg agttcaattg tcaccatgtg gtgcgattgc    3240
tgggtgtggt gtcccaaggc cagccaacac tggtcatcat ggaactgatg acacggggcg    3300
atctcaaaag ttatctccgg tctctgaggc cagaaatgga gaataatcca gtcctagcac    3360
ctccaagcct gagcaagatg attcagatgg ccggagagat tgcagacggc atggcatacc    3420
tcaacgccaa taagttcgtc cacagagacc ttgctgcccg gaattgcatg gtagccgaag    3480
atttcacagt caaaatcgga gattttggta tgacgcgaga tatttatgag acagactatt    3540
accggaaagg agggaaaggg ctgctgcccg tgcgctggat gtctcctgag tccctcaagg    3600
atggagtctt caccacttac tcggacgtct ggtccttcgg ggtcgtcctc tgggagatcg    3660
ccacactggc cgagcagccc taccagggct tgtccaacga gcaagtcctt cgcttcgtca    3720
ttggagggcg gccttctgga caagccagac aactgtcctg catgctgtt tgaactgatg    3780
cgcatgtgct ggcagtataa ccccaagatg aggccttcct tcctggagat catcagcagc    3840
atcaaagagg agatggagcc tggcttccgg gaggtctcct tctactacag cgaggagaac    3900
aagctgcccg agccggagga gctggacctg agccagaga acatggagag cgtccccctg    3960
gacccctcgg cctcctcgtc ctccctgcca ctgcccgaca gacactcagg acacaaggcc    4020
gagaacggcc ccggccctgg ggtgctggtc ctccgcgcca gcttcgacga gagacagcct    4080
tacgcccaca tgaacggggg ccgcaagaac gagcgggcct tgccgctgcc ccagtcttcg    4140
acctgctgat ccttggatcc tgaatctgtg caaacagtaa cgtgtgcgca cgcgcagcgg    4200
ggtggggggg gagagagagt tttaacaatc cattcacaag cctcctgtac ctcagtggat    4260
cttcagaact gcccttgctg cccgcgggag acagcttctc tgcagtaaaa cacatttggg    4320
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tgggcctta agaaccttaa tgacaacact taatagcaac agagcacttg agaaccagtc    4440
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ggaaaaataa ttgccacaag tccagctggg aagccctttt tatcagtttg aggaagtggc    4560
tgtccctgtg gccccatcca accactgtac acacccgcct gacaccgtgg gtcattacaa    4620
aaaaacacgt ggagatggaa attttttacct ttatctttca cctttctagg gacatgaaat    4680
ttacaaaggg ccatcgttca tccaaggctg ttaccatttt aacgctgcct aattttgcca    4740
aaatcctgaa ctttctccct catcggcccg gcgctgattc ctcgtgtccg gaggcatggg    4800
tgagcatggc agctggttgc tccatttgag agacacgctg gcgacacact ccgtccatcc    4860
gactgcccct gctgtgctgc tcaaggccac aggcacacag gtctcattgc ttctgactag    4920
```

5415

```
attattattt gggggaactg gacacaatag gtctttctct cagtgaaggt ggggagaagc    4980
tgaaccggct tccctgccct gcctccccag cccctgccc aaccccaag aatctggtgg    5040
ccatgggccc cgaagcagcc tggcggacag gcttggagtc aaggggcccc atgcctgctt    5100
ctctcccagc cccagctccc ccgccccgcc cccaaggaca cagatgggaa ggggtttcca    5160
gggactcagc cccactgttg atgcaggttt gcaaggaaag aaattcaaac accacaacag    5220
cagtaagaag aaaagcagtc aatggattca agcattctaa gctttgttga cattttctct    5280
gttcctagga cttcttcatg ggtcttacag ttctatgtta gaccatgaaa catttgcata    5340
cacatcgtct ttaatgtcac ttttataact tttttacggt tcagatattc atctatacgt    5400
ctgtacagaa aaaaaaaagc tgctattttt tttgttcttg atctttgggg atttaatcta    5460
tgaaaacctt caggtccacc ctctcccctt tttgctcact ccaagaaact tcttatgctt    5520
tgtactaaag ggcgtgactt tcttcctctt ttcccggtaa tggatacttc tatcacataa    5580
tttgccatga actgttggat gcctttttat aaatacatcc cccatccctg ctcccacctg    5640
cccctttagt tgttttctaa cccgtaggct tctctggggg cacgaggcaa aaagcagggc    5700
cggggcaccc catcctgagg agggggccgc ggttcctttt cccccaggcc tggccctcac    5760
agcatttggg agcctgttta cagtggcaag acatgataca aattcaggtc agaaaaacaa    5820
aggttaaata tttcacacgt ctttgttcag tgtttccact caccgtggtt gagaagcctc    5880
accctctctt tcccttgcct ttgcttangt tgtgacacac atatatatat attnttttaa    5940
ttct                                                                 5944
```

<210> 6748
<211> 1201
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)...(962)
<223> similar to gi2916802 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6748
```
gaggaatcgc tggtcgccag cgaggggtgc ggcttcaatt tcaataactt tattggtggc      60
ctgatctgca gaacagccat cacatcagtg gcccttggag gagggagcgc atcgcccgag     120
gtggtccccg acgagctgca gccatgggaa acaccaccag cgaccgggtg tccggggagc     180
gccacggcgc caaggctgca cgctccgagg gcgcaggcgg ccatgccccg gggaaggagc     240
acaagatcat ggtggggagt acggacgacc ccagcgtgtt cagcctccct gactccaagc     300
tccctgggga caaagagttt gtatcatggc agcaggattt ggaggactcc gtaaagccca     360
cacagcaggc ccggcccact gttatccgct ggtctgaagg aggcaaggag gtcttcatct     420
ctgggtcctt caacaattgg agcaccaaga ttccactgat taagagccat aatgactttg     480
ttgccatcct ggacctccct gagggagagc accaatacaa gttctttgtg gatggacagt     540
gggttcatga tccatcagag cctgtggtta ccagtcagct tggcacaatt aacaatttga     600
tccatgtcaa gaaatctgat tttgaggtgt tcgatgcttt aaagttagat tctatggaaa     660
gttctgagac atcttgtaag agacctttcc agctcacccc cagggcctta tggtcaagaa     720
atgtatgcgt ttcgatctga ggaaagattc aaatccccac ccatccttcc tccttatcta     780
cttcaagtta ttcttaacaa agacactaat atttcttgtg acccagcctt actccctgag     840
cccaaccatg ttatgctgaa ccatctctat gcattgtcca ttaaggacag tgtgatggtc     900
cttagcgcaa cccatcgcta caagaagaag tatgttacta ctctgctata caagcccatt     960
tgaagggatc ccttcttgcc tctaaggatt caggagaagc atctcccttg catttctgga    1020
ctgaaccagt cttacctgag actggaaggc tgatttgctt tgaggctgat atgtgtgttt    1080
cagagcctct gagtaggatg ctctgctttt gcatttgatt gcagatgaga gctttatgag    1140
```

5416

```
ttcacggaat ttattttaag aaaaaaaaat atacatatga gaagaaggta aatggaaaaa    1200
a                                                                      1201




        <210> 6749
        <211> 2026
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (55)...(1028)
        <223> similar to gi4929611 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 6749
cttcgtgtga gaccctcgcg aggtctgaga gtcactggag ctaccagaag catcatgggg     60
ccctgggggag agccagagct cctggtgtgg cgccccgagg cggtagcttc agagcctcca    120
gtgcctgtgg ggctggaggt gaagttgggg gccctggtgc tgctgctggt gctcaccctc    180
ctctgcagcc tggtgcccat ctgtgtgctg cgccggccag gagctaacca tgaaggctca    240
gcttcccgcc agaaagccct gagcctagta agctgtttcg cgggggggcgt cttttttggcc    300
acttgtctcc tggacctgct gcctgactac ctggctgcca tagatgaggc cctggcagcc    360
ttgcacgtga cgctccagtt cccactgcaa gagttcatcc tggccatggg cttcttcctg    420
gtcctggtga tggagcagat cacactggct tacaaggagc agtcagggcc gtcacctctg    480
gaggaaacaa gggctctgct gggaacagtg aatggtgggc cgcagcattg gcatgatggg    540
ccagggggtcc cacaggcgag tggagcccca gcaacccct cagccttgcg tgcctgtgta    600
ctggtgttct ccctggccct ccactccgtg ttcgaggggc tggcggtagg gctgcagcga    660
gaccgggctc gggccatgga gctgtgcctg gctttgctgc tccacaaggg catcctggct    720
gtcagcctgt ccctgcggct gttgcagagc caccttaggg cacaggtggt ggctggctgt    780
gggatcctct tctcatgcat gacacctcta ggcatcgggc tgggtgcagc tctggcagag    840
tcggcaggac ctctgcacca gctggcccag tctgtgctag agggcatggc agctggcacc    900
tttctctata tcacctttct ggaaatcctg ccccaggagc tggccagttc tgagcaaagg    960
atcctcaagg tcattctgct cctagcaggc tttgccctgc tcactggcct gctcttcatc   1020
caaatctagg gggcttcaag agaggggcag gggagattga tgatcaggtg cccctgttct   1080
cccttccctc ccccagttgt ggggaatagg aaggaaaggg gaagggaaat actgaggacc   1140
aaaaagttct ctgggagcta aagatagagc cttttggggct atctgactaa tgagagggaa   1200
gtgggcagac aagaggctgg ccccagtccc aaggaacaag agatggtcaa gtcgctagag   1260
acatatcagg ggacattagg attggggaag acacttgact gctagaatca gaggttggac   1320
actatacata aggacaggct cacatgggag gctggaggtg ggtacccagc tgctgtggaa   1380
cgggtatgga caggtcataa acctagagtc agtgtcctgt tggtcctagc ccatttcagc   1440
accctgccac ttggagtgga cccctcctac tcttcttagc gcctaccctc atacctatct   1500
ccctcctccc atctcctagg ggactggcgc caaatggtct ctccctgcca attttggtat   1560
cttctctggc ctctccagtc ctgcttactc ctctatttt aaagtgccaa acaaatcccc   1620
ttcctctttc tcaaagcaca gtaatgtggc actgagccct acccagcacc tcagtgaagg   1680
gggcctgctt gctctttatt ttggtcccgg atcctggggt ggggcagaaa tatttctgg    1740
gctggggtag gaggaaggtt gttgcagcca tctactgctg ctgtaccta ggaatatggg   1800
gacatggaca tggtgtccca tgcccagatg ataaacactg agctgccaaa acattttttt   1860
aaatacaccc gaggagccca agggggaagg gcaatgccta cccccagcgt tattttttggg   1920
gagggagggc tgtgcatagg gacatattct ttagaatcta ttttattaac tgacctgttt   1980
tgggacctgt tacccaaata aaagatgttt ctagacaaaa aaaaaa                   2026
```

5417

<210> 6750
<211> 2026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)...(1867)
<223> similar to gi180357 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6750

```
caacggacgg acgccatgag ggctctgctg ctcctggggt tcctgctggt gagcttggag      60
tcaacacttt cgattccacc ttgggaagcc cccaaggagc ataagtacaa agctgaagag     120
cacacagtcg ttctcactgt caccgggggag ccctgccact tccccttcca gtaccaccgg    180
cagctgtacc acaaatgtac ccacaagggc cggccaggcc ctcagccctg gtgtgctacc     240
accccaact ttgatcagga ccagcgatgg ggatactgtt tggagcccaa gaaagtgaaa      300
gaccactgca gcaaacacag cccctgccag aaaggaggga cctgtgtgaa catgccaagc     360
ggcccccact gtctctgtcc acaacacctc actggaaacc actgccagaa agagaagtgc     420
tttgagcctc agcttctccg gtttttccac aagaatgaga tatggtatag aactgagcaa     480
gcagctgtgg ccagatgcca gtgcaagggt cctgatgccc actgccagcg gctggccagc     540
caggcctgcc gcaccaaccc gtgcctccat gggggtcgct gcctagaggt ggagggccac     600
cgcctgtgcc actgcccggt gggctacacc ggacccttct gcgacgtgga caccaaggca     660
agctgctatg atggccgcgg gctcagctac cgcggcctgg ccaggaccac gctctcgggt     720
gcgccctgtc agccgtgggc ctcggaggcc accttaccgg aacgtgactg ccgagcaagc     780
gcggaactgg ggactgggcg gccacgcctt ctgcaggaac ccggacaacg acatccgccc     840
gtggtgcttc gtgctgaacc gcgaccggct gagctgggag tactgcgacc tggcacagtg     900
ccagacccca acccaggcgg cgcctccgac cccggtgtcc cctaggcttc atgtcccact     960
catgcccgcg cagccggcac cgccgaagcc tcagcccacg acccggaccc cgcctcagtc    1020
ccagaccccg ggagccttgc cggcgaagcg ggagcagccg ccttccctga ccaggaacgg    1080
cccactgagc tgcgggcagc ggctccgcaa gagtctgtct tcgatgaccc gcgtcgttgg    1140
cgggcctggt ggcgctacgc ggggcgcacc cctacatcgc cgcgctgtac tggggccaca    1200
gtttctgcgc cggcagcctc atcgcccct gctgggtgct gacggccgct cactgcctgc    1260
aggaccggcc cgcacccgag gatctgacgg tggtgctcgg ccaggaacgc cgtaaccaca    1320
gctgtgagcc gtgccagacg ttggccgtgc gctcctaccg cttgcacgag gccttctcgc    1380
ccgtcagcta ccagcacgac ctggctctgt tgcgccttca ggaggatgcg gacggcagct    1440
gcgcgctcct gtcgccttac gttcagccgg tgtgcctgcc aagcggcgcc gcgcgaccct    1500
ccgagaccac gctctgccag gtggccggct ggggccacca gttcgagggg gcggaggaat    1560
atgccagctt cctgcaggag gcgcaggtac cgttcctctc cctggagcgc tgctcagccc    1620
cggacgtgca cggatcctcc atcctccccg gcatgctctg cgcaggggttc ctcgagggcg    1680
gcaccgatgc gtgccagggt gattccggag gcccgctggt gtgtgaggac caagctgcag    1740
agcgccggct caccctgcaa ggcatcatca gctggggatc gggctgtggt gaccgcaaca    1800
agccaggcgt ctacaccgat gtggcctact acctggcctg gatccgggag cacaccgttt    1860
cctgattgct cagggactca tctttccctc cttggtgatt ccgcagtgag agagtggctg    1920
gggcatggaa ggcaagattg tgtcccattc ccccagtgcg gccagctccg cgccaggatg    1980
gcgcaggaac tcaataaagt gctttgaaaa tgctgaaaaa aaaaaa                   2026
```

5418

```
<210> 6751
<211> 1039
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (557)...(136)
<223> similar to gi4336855 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


    <400> 6751
tttttttttt ttggcgctgc caaaactcat ttttcattaa cacggggtgg ggtcccaggc        60
tcaggccccc gggcccgatc atggccccag tccgcacaga gcgcccggcc ctggccgccc       120
gcagctccac cgctcagcca gtgatgcgca catccgtgcg gcggcggatc cgccgggccc       180
gagccgcctc gggcaggatg gcgagcagct gctcttgcac cagcatctcc acgatcttgc       240
tccttggtgc gggatgtcag gccgcagcca ctggcgggga caagctcccg cagctgccgg       300
aaagcctccc ggggacccgc cgcatcctgg tagcggaact gccggaaacg ctggcggaac       360
gtctcgggac cgagtctaga gccggcgggg cctggtgtgg agcgcgcttc agcttcggcc       420
tgaggcgcta cgctcacggg tgcgggcccg agaggcagct ccagggccgc ggaggccgca       480
gctcggggcg tagggatggc ttcagggacc gcggcgttgg gactggaagg ctcaggggca       540
ggcggtgagg cctctggcag cgaggagccc acacagttac gctcaggggc tgagctcgaa       600
ccggctcctt ccagtttctc cggtggcacc gccgcgggac tcccagtggc cgccaagatc       660
ggctccgtag ccgccataac tccagctccg ggcgtcactc tttgtccggt agctgtgtgc       720
tcagcactgc gtctgcgcgg gggtggggtg agcagggaga cgtttccggt taaagggcag       780
agctcgcgtc acccttgagg gagtcggact cgggaccggc cgagagtgtg cggagcttac       840
ctgcaccagc gaagcgcctg cggcagccgg aagcgaaagt ctctggcttc tctgcgtcca       900
ggtcggcgcg cgagcacccg gaagccgctt gcgggctccc ggaagcggcg ccctctagcg       960
ttctcgagtc gcatgggcgg ctgctgccct cgcggtgcgg gagggcgagc tgcgcgtggc      1020
ctcgtgccga attcccagg                                                    1039


<210> 6752
<211> 1773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1774)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1702)...(562)
<223> similar to gi173267 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

5419

```
<400> 6752
agagagaaat gtccagacat caagagaagc tgtgtatgtg gcctggattt tagaatgaga      60
tggcccagca gcttcctctt cctccctgga gaagagctat gagctgccag atgggcaggt     120
tatcaccatt ggcaatgagc gcttccgntg ccctgagacc ctcttccagc cttcctttat     180
tggcatggag tccgctggaa ttcatgagac aacctacaat tccatcatga agtgtgccat     240
tgacatccgt aaggacttat atgccaacaa tgtcctcttt gggggcccccc ccatgtaccc     300
tggcattgct gacaggatgc aaaaggagat cacagccctg gcccccagcc ccatgaagat     360
caagattatt gctcccccaa agcggaagta ctcagtttgg atcgggggggt ttatcctggc     420
ctctctttcc cccttccaac aaatgtggat cagcaagcct gagtatgatg aggcagggcc     480
ctccattgtc cccaggaagt gtttcatgac tggtaacaga gtagtctcga ggggatcctt     540
ggagaacctg ttctgacttt agaagcactt cctgtggaca atggagggcc ctgcctcatc     600
atactcaggc ttgctgatcc acatctgctg gaaggtggag agagaggcca ggatagagcc     660
cccgatccag actgagtact tccgctctgg gggagcaata atcttgatct tcatggtgct     720
gggggggccagg gctgtgatct ccttctgcat cctgtcagca atgccagggt acatggtggt     780
gccccccagag aggacattgt tggcatataa gtccttacgg atgtcaatgt cacacttcat     840
gatggaattg taggttgtct .catgaattcc agcggactcc atgccaataa aggaaggctg     900
gaagagggtc tcagggcagc ggaagcgctc attgccaatg gtgataacct gcccatctgg     960
cagctcatag ctcttcttcc agggaggaag aggaagctgc tgtggccatc tcatttctca    1020
aaatcctggg ccacatagca cagcttctcc ttgatgtctc gcacaatttc tctctcagct    1080
gtggtcacaa aggaaatagc ctcctctctt gggaggatct tcatgaggta gtccgtgagg    1140
tcacggccca gccaaagtcc caggcgcatg atggcatggg gcagggcata gccttcatag    1200
atggggacat tgtgggtgac gccatcaccc tgaatccagg acgatgcctg tcgtgcggcc    1260
agaggcatag agggagagca cagcttgaat ggcgacgtac atggcaggga cattgaaggt    1320
ttcaaacatg atctgggtca tcttttccct gttggccttg ggatttaggg gagcctctgt    1380
gagcagggtg gggtgcctct tccaggtgct aacacgcagc tccattgtaa gaaggagtgg    1440
tgcccagatc ttctccatgt catcccagtt ggtgatgatg cccgtgttcc aatggggtat    1500
ttgagagtta ggatccctcg cttgctctga gcctcatccc cccacatagc tgtctttctg    1560
gcccattccc accatcacac cctggtggcg.agggcggccc acaatggagg ggaagacagc    1620
ccggggggca tcatctcctg cgaagcctgc cttgcacagg ccagagccat tgtcacacac·    1680
gagcgcggtg gtctcctctt cacacatggt gtatgtggct gagtgagctg gggactggag    1740
caccgagggt atgagaggtt cttctcccag tga                                 1773
```


<210> 6753
<211> 1150
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (298)...(0)
<223> similar to gi2465332 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


```
<400> 6753
gagttttggg tccacggata aaacgtgtct cttttgtctc taccagaaaa tgaaaggaat      60
tgaaattaag agaagggaga gattgaagtg tagcgccaag attgaaagga gaaagaggtt     120
gagggatagt gaggcaagtt ggagaagaga gtaaaaagag gccgcttacc tgatttgaaa     180
ttggtgagat gtttcttggg ctggtcggtc tgaggacctg aggtcatagg tggatctttc     240
tcacggagca aagagcagga ggacagggga ttgatctccc aagggaggtc ccccaattcg     300
```
```

5420
```

```
agtcacagca ccaaatttca tgcgcgtccg tgtgaagaga ccaccaaaca ggctttgtgt      360
gagcaacatg gctgtttatt tcacctgggt gcaggcgggc tgagtccgaa aagagagtca      420
gcgaagggag ataggggtgg ggccgtttta taggatttgg gtaggtagtg gaaaattaca      480
gtcaaagggg gttgttctct ggcgggcagg ggcggggggtt gcaaggtgct cagtagggga      540
gcttctgagc aaggatgagc caggagaagg aatttcacaa ggtaatgtca tcagttaagg      600
cagaaaccag ccattttcac gtcttttgtg attcttcagt tgcttcaggg catctggatg      660
tatacgtgca ggtcataggg gatatgatgg cttagcttgg gctcagaggc cggacattcc      720
tgtcttctta tactaaagct cggcttctgt gatggtccag gggacttccg aggcgatcgg      780
gcagcgtcaa tcttcagtcg ctaagccgaa tagatctggg aaggagtcag agagccttgg      840
gctagagctt taggggctcc aggagtggct gtcgggcgag ctggcagtc tgatttccag      900
tgggtgccag atttgaaatt ggtgagatgt ttcttgggct ggttggtctg aggacctgag      960
gtcgtaggtg gatctttctc acggagcaaa gagcaggagg acaggggatt gatctcccaa     1020
gggaggtccc ccgatccgag tcacggcacc aaatttcatg cgcgtccgtg tgaagagacc     1080
accaaacagg ctttgtgtga gcaacgaggc tgtttatttc acctgggtgc aggcgggctg     1140
agtccgaaaa                                                            1150
```

<210> 6754
<211> 1618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (35)...(976)
<223> similar to gi3851518 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6754
```
agcgcaggtg ggcccgcgct ctcggccctg caagatgccc ctgaagctgc gggggaagaa       60
gaaggccaag tccaaggaga ccgccgggct ggtggagggc gagccgacgg gcgcgggcgg      120
cgggagcctc tcagcgtccc gggctcccgc acgcaggctg gtcttccacg cgcagctggc      180
gcacggtagt gccacgggcc gagtggaggg cttctccagc atccaggagc tctacgccca      240
gatcgcgggc gcgtttgaaa tctcgccgtc ggagatctta tattgcactt taaacacacc      300
taaaattgac atggaaagac tcttaggagg acaactagga ctagaagatt tcatatttgc      360
ccatgtgaaa ggaatcgaaa aagaagtgaa tgtgtataaa tctgaggatt cacttggtct      420
caccattaca gataatggtg ttggctatgc ttttataaag agaattaaag atggtggtgt      480
tattgactca gttaaaacaa tctgtgttgg ggatcatatt gaatccataa atggagaaaa      540
tattgttggg tggcgtcact atgatgttgc taagaagtta aaggaattaa aaaaggagga      600
actctttact atgaagttaa tagaacctaa gaaggcattt gaaatagagc tgaggtcaaa      660
ggctggaaag tcatcaggag aaaaaattgg ttgtggaagg gcaacacttc gcctgagatc      720
aaaaggtcct gccaccgtgg aagaaatgcc ttctgaaacc aaagcaaagg gcaattgaaa      780
agattgatga tgttcttgag ttgtacatgg gaattcgaga tattgattta gccaccacaa      840
tgtttgaagc tggaaaggac aaagtaaatc cagatgaatt tgctgtggca cttgacgaaa      900
ctcttggaga ctttgcgttc ccagacgaat ttgtctttga tgtttgggga gtcattggtg      960
atgccaaacg aagaggatta tgatgtgtac actccatctc tgaagaaaca acccatcgtt     1020
cttttttttt ctctttttta aaaagtccta taagatctgt ttttggacac ctttactaac     1080
tctggtttaa tttcatgtgt atggaatata ttctttgaaa tataattttg gtaattttga     1140
tttctgggca cttttaaaca ttgctgatgt agtatgctta agagaaatga cctaaataag     1200
gatcaattgt aatattcatt caaaaggttt ttaaaagtaa gttttaagga gtatttctcg     1260
acagatgatt ttaataaccc ctcataccca tgctttgttt ttcacatata aatagatgat     1320
```

5421

```
ttcaatagct ttgtagtttt ttttcaaaat cttaatgtaa actaggattg gagtatgatt    1380
tacctcatag tatcttcact gtgttatcct agtttgaaca ggatatgttc aggaaatgaa    1440
aggtgaatta tgcccttat tggtctagaa gcattggttt ttttttgatc ctctgagtaa     1500
gggaaggaag attcctgtgg catgttgatt tctatggcca actttctctc tttgtaaaac    1560
aaagattgat tgattttctt gtatgcttct ttatacatgc tcttaaaact tgtggttg      1618
```

<400> 6755
```
gcacgaggga aaactaactg gaaggaagtt taaatacaga aagagcaaag tattatctaa      60
ctataacaat gccacatttt actgtgacta aggtagagga cccagaggag ggggcagcgg     120
cttcgatctc tcaagagcct agtttagcag acataaaagc ccggattcag gattcagatg     180
aaccagacct gagtcagaac tccatcacag gggaacacag ccaactgtta gacgacggac     240
ataagaaagc tcgaaatgct tatctcaata attccaatta tgaagaagga gatgaatatt     300
ttgataaaaa tttggcactc tttgaggaag aaatggacac cagaccgaag gtgtcttccc     360
tcctcaaccg catggccaat tacactaatc tgactcaagg agcaaaggaa catgaagagg     420
cagaaaacat cactgaaggg aaaaagaagc ccaccaagac cccccaaatg ggtaccttca     480
tgggtgtcta cctcccatgt ctacaaaata tttttggagt gatcctttt ttacgcctta     540
catgggtggt gggcacagct ggagttcttc aggctttgc aattgtcctt atctgctgct      600
gctgtacaat gttgactgct atctccatga gtgccattgc cactaatgga gtggtgccag     660
ctgggggctc atactttatg atttcccggg cactgggccc agagtttggt ggggctgttg     720
gcctctgctt ttatcttggt accacatttg cagcagccat gtacatcctt ggtgccattg     780
aaatctttct ggtctatatc gtcccccgag ctgccatctt tcacagtgat gacgcactca     840
aggaatcagc agccatgcta aataacatgc gtgtctacgg cacagctttc ttggtcctta     900
tggtattagt ggtatttatc ggcgtacgct atgtgaacaa gtttgcctca cttttcctgg     960
cctgtgtcat tgtgtccatc ttggccatct atgctggagc catcaagtct tcttttgctc    1020
ctccacactt cccggtctgc atgctgggta accgcaccct ttcatcaaga cacattgacg    1080
tttgctctaa gaccaaggaa attaacaaca tgacagtccc atcaaagtta tggggattct    1140
tctgtaactc gagtcaattt ttcaatgcca cctgtgatga atactttgtt cacaataacg    1200
tcacttcaat ccagggcatt cctggattgg ctagtggtat aattacagag aatctttgga    1260
gtaattacct acccaaggga gagatcatcg aaaagccttc agccaaatct tctgatgtct    1320
taggcagctt aaaccatgaa tatgttcttg ttgacatcac cacctccttc acgcttctgg    1380
tgggaatctt ctttccctct gttacaggta tcatggctgg atcaaacaga tctggagatc    1440
tgaaagatgc tcagaagtct attccgattg gtactatcct tgccatcctg accacctcct    1500
ttgtttattt aagcaatgtt gtccttttg gtgcatgtat tgaagggggtt gttctcagag    1560
acaagttcgg tgatgctgtg aaaggtaatt tggtggtagg caccttatct tggccatccc    1620
catgggtgat tgttattggc tccttctttt caacatgtgg ggctggactt cagagcctca    1680
caggtgcacc gaggctgcta caagctattg ccaaggataa catcataccg tttctgaggg    1740
tttttggcca cagcaaagcc aatggggaac ctacctgggc tttacttcta actgctgcca    1800
ttgcagagct tggaatactc attgcctccc tggatcttgt ggccccaatt ctttccatgt    1860
tttttctcat gtgttacctc tttgtaaact tggcatgtgc cttgcaaaca ttacttcgaa    1920
```


5422
```

```
cacccaactg gagaccccga ttccgctact accattgggc cctttctttc atgggaatga    1980
gtatctgtct ggctctgatg ttcatttctt cctggtatta tgccattgta gccatggtaa    2040
tagctggtat gatctacaag tacattgaat accaaggagc tgagaaagaa tggggtgatg    2100
gtatccgtgg gctgtccctc agtgcagccc ggtttgcttt gcttcgattg gaggaaggac    2160
ctccacacac taaaaactgg aggcctcagt tgcttgtatt actgaaacta gatgaagact    2220
tacatgtcaa gcatcctcgc ctcctcacct ttgcctcaca gctcaaagca ggaaaaggtc    2280
tcactattgt gggctctgtc atcgtgggga acttcctaga gaactacggt gaagctttag    2340
ctgctgagca gaccataaag cacctaatgg aggcagagaa ggtaaaagga ttctgccagc    2400
tggtggtggc cgccaagctg agagagggca tttcccacct catccagtca tgtggccttg    2460
ggggcatgaa gcacaacacg gtggtgatgg gctggcctaa tggctggcgt caaagcgaag    2520
atgcccgcgc ttggaagact tttattggca cagttcgagt gacaactgct gcccatcttg    2580
cactgctggt ggctaaaaac atctccttct ttcccagcaa tgtggagcaa ttttctgagg    2640
gcaacattga tgtgtggtgg attgtgcatg atggggggat gcttatgcta ctaccattcc    2700
tactgaaaac agcacaaggt gtggcgaaag tgcagcatac ggttctttca cagtagccca    2760
attagaagac aacagtatcc aaatgaagaa ggacctagcc accttcctat atcacttacg    2820
cattgaggcg gaggtagaag tggtggagat gcatgacagt gatatatcag catatactta    2880
cgagcgcact ttgatgatgg aacaaaggtc ccagatgctt cggcacatgc ggctatccaa    2940
aacagagcga gacagagagg cacaattggt gaaagaccga aactcaatgc tacgattgac    3000
cagcattggc tctgatgagg acgaagagac agaaacctat caggagaagg tgcacatgac    3060
ttggacaaaa gacaagtaca tggcatcccg gggacaaaaa gcgaagtcaa tggaaggatt    3120
ccaggacctg cttaacatgc gtccggacca gtccaatgtg aggcggatgc atacagcagt    3180
gaaactcaac gaggttatag ttaacaagtc ccatgaagca aagctggttt tattgaatat    3240
gccagggcca ccccgaaacc ctgagggtga tgaaaactac atggagttcc tagaggtgct    3300
taccgaggga ctagagcgag tcctacttgt ccggggtggt ggcagtgaag tgatcaccat    3360
ttattca                                                               3367


        <210> 6756
        <211> 1875
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (109)...(1672)
        <223> similar to gi4929565 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 6756
ccacgtgagc gcctgcgttt ctcctcaaac ctaacgatgc cgccggagcg gaggagacga      60
atgaaactgg accggagaac cggagcgaag ccgaagcgga agccggaat gagggcggac      120
tggaaagccg gagcggggcc aggcgggcct ccccaaaagc ctgccccttc atcccagcgg      180
aaaccgccgg cccggccgag cgcggcggcc gctgcgattg cagtcgcggc ggcggaggaa      240
gagagacggc tccggcagcg gaaccgcctg aggctggagg aggacaaacc ggccgtggag      300
cggtgcttgg aggagctggt cttcggcgac gtcgagaacg acgaggacgc gttgctgcgg      360
cgtctgcgag gcccgagggt tcaagaacat gaagactcgg gtgactcaga agtggagaat      420
gaagcaaaag gtaattttcc acctcaaaag aagccagttt gggtggatga agaagatgaa      480
gatgaggaaa tggttgacat gatgaacaat cggtttcgga aggatatgat gaaaaatgct      540
agtgaaagta aactttcgaa agacaacctt aaaaagagac ttaaagaaga attccaacat      600
gccatgggag gagtacctgc ctgggcagag actactaagc ggaaaacatc ttcagatgat      660
gaaagtgaag aggatgaaga tgatttgttg caaaggactg ggaatttcat atccacatca      720
```

```
acttctcttc caagaggcat cttgaagatg aagaactgcc agcatgcgga atgctggaac      780
gtcctactgt tgctcggatc tccatctgtg cagttccatc ccggtgcaca gattgtgatg      840
gttgctggat tagataatgc tgtatcacta tttcaggttg atgggaaaac aaatcctaaa      900
attcagagca tctatttgga aaggtttcca atctttaagg cttgttttag tgctaatggg      960
gaagaagttt tagccacgag tacccacagc aaggttcttt atgtctatga catgctggct     1020
ggaaagttaa ttcctgtgca tcaagtgaga ggtttgaaag agaagatagt gaggagcttt     1080
gaagtctccc cagatgggtc cttcttgctc ataaatggca ttgctggata tttgcatttg     1140
ctagcaatga agaccaaaga actgattgga agcatgaaaa ttaatggaag ggttgcagca     1200
tccacattct cttcagatag taagaaagta tacgcctctt cggggggatgg agaagtttat     1260
gtttgggatg tgaactcaag gaagtgcctt aacagatttg ttgatgaagg cagtttatat     1320
ggattaagca ttgccacatc taggaatgga cagtatgttg cttgtggttc taattgtgga     1380
gtggtaaata tatacaatca agattcttgt ctccaagaaa caaacccaaa gccaataaaa     1440
gctataatga acttggttac aggtgttact tctctgacct tcaatcctac tacagaaatc     1500
ttggcaattg cttcagaaaa aatgaaagaa gcagtcagat tggttcatct tccttcctgt     1560
acagtatttt caaacttccc agtcattaaa aataagaata tttctcatgt tcataccatg     1620
gatttttctc cgagaagtgg atactttgcc ttggggaatg aaaagggcaa ggccctgatg     1680
tataggttgc accattactc agacttctaa agagactatt tgaagtccag ttgagtcaca     1740
agagaagcct gtcttgatat atcatctcag aaactttcct gaatatgtgg ataatatatg     1800
gaaaatgatt tatagatccc agctgtgctt aagagccagt aatgtcttaa taaacatgtg     1860
gcagcttttg tttga                                                       1875
```

```
        <210> 6757
        <211> 4365
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(4366)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (158)...(4147)
        <223> similar to gi2982501 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 6757
ccccacgcca ccccaagcat cccaggactc ttctgaaaca gggcagtgac ccgggaggaa       60
gtcaccaggt gcagaggacc gtgccctgtg gggacctgcc tgcaggctgc tgacagactc      120
cgggctacca gatcggccgt ccagctggaa tcaaccgatg gaggctccgc tgcaaactgg      180
aatggtgctt ggcgtgatga tcggggccgg agtggcggtg gtggtcacgg ccgtgctcat      240
cctcctggtg gtgcggaggc tgcgagtgcc aaaaacccca gccccggatg gccccggta       300
tcggttccgg aagagggaca aagtgctctt ctatggccgg aagattatgc ggaaggtgtc      360
acaatccacc tcctccctcg tggatacctc tgtctccgcc acctcccggc cacgcatgag      420
gaagaaactg aagatgctca acattgccaa gaagatcctg cgcatccaga aagagacgcc      480
cacgctgcag cggaaggagc ccccgcccgc agtgctagaa gctgacctga ccgagggcga      540
cctggctaac tcccatctgc cctctgaagt gctttatatg ctcaagaacg tccgggtgct      600
gggccacttc gagaagccac tcttcctgga gctctgccgc cacatggtct ccagcggct      660
gggccagggt gactacgtct tccggccggg ccagccagat gccaagcatc tacgtggtgc      720
```

5424

```
aggacgggct gctggagctc tgtctgccag ggcctgacgg gaaggagtgt gtggtgaagg    780
aagtggttcc tggggacaag cgtcaacagc cttctcaagc atcctggatg tcatcaccgg    840
tcaccagcat ccccaagcgg gaccggtgtc tgcccgggcg gcccgggact ccacggtgct    900
gcgcctgccg gtggaaacat tctccgcggt cttcaccaag tacccggaga gcttggtgcg    960
ggtcgtgcag atcatcatgg tgcggctgca gcgagtcacc ttcctggcac tgcacaacta   1020
cctgggtctg accaatgagc tcttcagcca cgagatccag cccctgcgtc tgttccccag   1080
ccccggcctc ccaactcgca ccagccctgt gcggggctcc aagagaatgg tcagcacctc   1140
agctacagac gagcccaggg agaccccagg gcggccaccc gatcccaccg ggcccccgct   1200
gcctggacct acaggggacc ctgtgaagcc cacatccctg gaaacccccct cggcccctct   1260
gctgagccgc tgcgtctcca tgccagggga catctcaggc ttgcagggtg gcccccgctc   1320
cgacttcgac atggcctatg agcgtggccg gatctccgtg tccctgcagg aagaggcctc   1380
cggggggtcc ctggcagccc ccgctcggac ccccactcag gagcctcgtg agcagccggc   1440
aggcgcctgc tgaatacagc tactgtgagg atgagtcggc cactggtggc tgccctttcg   1500
ggccctacca gggccgccag accagcagca tcttcgaggc agcaaagcag gagctggcca   1560
agctgatgcg gattgaggac ccctccctcc tgaacagcag agtcttgctg caccacgcca   1620
aagctggcac catcattgcc cgccagggag accaggacgt gagcctgcac ttcgtgctct   1680
ggggctgcct gcacgtgtac cagcgcatga tcgacaaggc ggaggacgtg tgcctgttcg   1740
tagcgcagcc cggggaactg gtggggcagc tggcggtgct cactggcgaa cctctcatct   1800
tcacactgcg agcccaacgc gactgcacct tcctgcggat ctccaagtcc gacttctatg   1860
agatcatgcg cgcacagccc agtgtggtgc tgagtgcggc gcacacggtg gcagccagga   1920
tgtcgccctt cgtgcgccag atggacttcg ccatcgactg gactgcagtg gaggcgggac   1980
ngcgcgctgt acaggcaggg cgaccgctcc gactgcactt acatcgtgct caatgggcgg   2040
ctgcgtagcg tgatccagcg aggcagtggc aagaaagagc tggtgggcga gtacgggcgc   2100
ggcgacctca tctgcgtggt ggaggcactg acccggcagc cgcgagccac gacggtgcac   2160
gcggtgcgcg acacggagct ggccaagctt cccgagggca ccttgggtca catcaaacgc   2220
cggtacccgc aggtcgtgac ccgccttatc cacctactga gccagaaaat ctagggaat   2280
ttgcagcagc tgcaaggacc cttcccagca ggctctgggt tgggtgtgcc cccacactcg   2340
gaactcacca acccagccag caacctggca actgtggcaa tcctgcctgt gtgtgctgag   2400
gtccccatgg tggccttcac gctggagctg cagcacgccc tgcaggccat cggtccgacg   2460
ctactcctta acagtgacat catccgggca cgcctggggg cctccgcact ggatagcatc   2520
caagagttcc ggctgtcagg gtggctggcc cagcaggagg atgcacaccg tatcgtactc   2580
taccagacgg acgcctcgct gacgccctgg accgtgcgct gcctgcgaca ggccgactgc   2640
atcctcattg tgggcctggg ggaccaggag cctaccctcg gccagctgga gcagatgctg   2700
gagaacacgg ctgtgcgcgc ccttaagcag ctagtcctgc tccaccgaga ggagggcgcg   2760
ggccccacgc gcaccgtgga gtggctaaat atgcgcagct ggtgctcggg gcacctgcac   2820
ctgcgctgtc cgcgccgcct cttttcgcgc cgcagccctg ccaagctgca tgagctctac   2880
gagaaggttt tctccaggcg cgcggaccgg cacagcgact tctcccgctt ggcgagggtg   2940
ctcacgggga acaccattgc ccttgtgcta ggcggggggcg gggccagggg ctgctcgcac   3000
atcggagtac taaaggcatt agaggaggcg ggggtccccg tggacctggt gggcggcacg   3060
tccattggct cttttcatcgg agcgttgtac gcggaggagc gcagcgccag ccgcacgaag   3120
cagcgggccc gggagtgggc caagagcatg acttcggtgc tggaacctgt gttggacctc   3180
acgtacccag tcacctccat gttcactggg tctgccttta accgcagcat ccatcgggtc   3240
ttccaggata agcagattga ggacctgtgg ctgccttact tcaacgtgac cacagatatc   3300
accgcctcag ccatgcgagt ccacaaagat ggctccctgt ggcggtacgt gcgcgccagc   3360
atgacgctgt cgggctacct gcccccgctg tgcgacccca aggacgggca cctactcatg   3420
gatggcggct acatcaacaa tctgccagcg gacatcgccc gcagcatggg tgccaaaacg   3480
gtcatcgcca ttgacgtggg gagccaggat gagacggacc tcagcaccta cggggacagc   3540
ctgtccggct ggtggctgct gtggaagcgg ctgaatccct gggctgacaa ggtaaaggtt   3600
ccagacatgg ctgaaatcca gtcccgcctg gcctacgtgt cctgtgtgcg gcagctagag   3660
gttgtcaagt ccagctccta ctgcgagtac ctgcgcccgc ccatcgactg cttcaagacc   3720
atggactttg ggaagttcga ccagatctat gatgtgggct accagtacgg gaaggcggtg   3780
tttggaggct ggagccgtgg caacgtcatt gagaaaatgc tcacagaccg gcggtctaca   3840
gaccttaatg agagccgccg tgcagacgtg cttgccttcc caagctctgg cttcactgac   3900
ttggcagaga ttgtgtcccg gattgagccc cccacgagct atgtctctga tggctgtgct   3960
gacggagagg agtcagattg tctgacagag tatgaggagg acgccggacc cgactgctcg   4020
agggatgaag gggggtcccc cgagggcgca agccccagca ctgcctccga gatggaggag   4080
gagaagtcga ttctccggca acgacgctgt ctgccccagg agccgcccgg ctcagccaca   4140
```

5425

```
gatgcctgag gacctcgaca ggggtcaccc cctccctccc acccctggac tgggctgggg    4200
gtggccccgt gggggtagct cactccccct cctgctgcta tgcctgtgac ccccgcggcc    4260
cacacactgg actgacctgc cctgagcggg gatgcagtgt tgcactgatg acttgaccag    4320
cccctccccc aataaactcg cctcttggaa atggcaaaaa aaaaa                     4365
```

<210> 6758
<211> 858
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (215)...(603)
<223> similar to gi4580592 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6758
```
ctgagtctta cctcgttgtg gcgtcagaac cgccgtcgct cgctcccttc tcggcagtgg      60
tacctgttcc cggtgtccct gaggacgtgc gggccaggta cggccccgaa agtaggaagc     120
ggagggggag caggtttgcg gggccaagtg ttgcggcgac gcacctcacg tcgagaatcg     180
ggaggaggag actgcaagga taggcccagg agtaatggag tccaaagagg aacgagcgtt     240
aaacaatctc atcgtggaaa atgtcaacca ggaaaatgat gaaaaagatg aaaaggagca     300
agttgctaat aaaggggagc ccttggccct acctttgaat gttagtgaat actgtgtgcc     360
tagaggaaac cgtaggcggt tccgcgttag gcagcccatc ctgcagtata gatgggacat     420
aatgcatagg cttggagagc cacaggcaag gatgagagag gagaatatgg aaaggattgg     480
ggaggaggtg agacagctga tggaaaagct gagggaaaag cagttgagtc atagtctgcg     540
ggcagtcagc actgatcccc ctcaccatga ccatcacgat gagttttgcc cttatgccct     600
gaaacctgat ggttaccatt ctgatgttaa tagggagacc cctgcttcct aaacttacac     660
atttgtggtg tacctttgtc gtaaacgttt tgatgttacc tatttcttgt gggtctccta     720
ttaccagctt ctaaatgaat gttgtttttg acccagtttg taagtttctg tcagcaggag     780
agttttacct attgcatgga aaaatgcccc ttatatattg tgaagttaat aaaacagttt     840
taaaaagcaa aaaaaaaa                                                   858
```

<210> 6759
<211> 1465
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1466)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (583)...(446)

5426

<400> 6759

```
tttttttttt ttctcactaa agaatattca tttatttata attattgcta agtaaacttc    60
tcttttaaac aggaacataa aaacacagta gggctttgca caagtggaat ctctaaacag   120
ttggtttgta tacatgtcaa aataagttag aatggaattt gtccaggagt ttccaagtca   180
cccgagaggc tgtgcacctc ttttgagaag gttagggagg ggtacagaca ggagccttgc   240
caagaccacc ccccagctca aactgtgagt tgtgctgttt cctcctccta gctttgccca   300
ggtccaaggc acagggcagg gggcgttcaa gtatcgaacc tcacagaggg ccagtgctga   360
cggcgggggct ggggggaggga aaggagagcc ccaccctggg ggccagacct tctcccttca   420
gtttccaaga ccaaggccac tgcactggca ggagggagga ggaggaggag aggtacaggg   480
ttcttttttgg taccaggggga gaaagacgtg ggaagaggta gttgcagggg atgatgcctt   540
ctgctcagca ggagaaaatg tcttatacag tgacggggtc actgccacct gagggtcatc   600
atggcgggca cctgggaggt cgtggggctt cggggtctgg aagccatact tgggccacct   660
tgtccacccc tcagtcctga tcacagtcac cctgaggcct ggcttggtcc ttcacttaag   720
gatccagcct tgggggtggc tgcgctgcag attggttcct cccaccgcag gctgttccct   780
tctccgggtt tctaggctga agctagtggc ttcatctgtg cctttgggga agacccctgc   840
ttgcccctcc ccactgaggc ctcaggaggc aagtgggtgg ggggtccgg gtgccctaga   900
gttcctgaat gtgctattca ctgccctggg cctgtcatct ctggttccag gggcaggagc   960
tggcgtggga acagagggga agagagcagg cgagcgaggg agctagctgt tggctgagca  1020
gagtcagcag ccctgacagc cgaggatggg acatgggaca gagcaagtca gcgactgcag  1080
gagccaggca ggggtggagg gcttcccagc tctgccttct cctgcctccc accccagcct  1140
gctgaggctg ctgccagcgg ctgcacctcc agggccaggg tgacagtccc catggagccc  1200
cagtcctgcc cggccaggct gctcggggtg ggtgggtagg aagcacgcac agcacattag  1260
gaagcttacg cttggaaaaa gaaaatgcat ctccatcaga aaaggtcata ggtgacacac  1320
agttggaaag aaaaaaataa taagttactt tcagaagacc ccctttgctc aaaaaaaccc  1380
ttgatttccc tctgtgggct ttactttcct ttttaaaata cgttgctctt ccgggaagc  1440
tgctgactcg tnnggggaat cctgc                                       1465
```

<210> 6760
<211> 1130
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (184)...(1042)

<400> 6760

```
gcagtgcggt ggaattcgca gaaaggcaga aaggagaaaa ttcaggataa ctctcctgag    60
gggtgagcca agccctgcca tgtagtgcac gcaggacatc aacaaacaca gataacagga   120
aatgatccat tccctgtggt cacttattct aaaggcccca accttcaaag ttcaagtagt   180
gatatggatg actccacaga aagggagcag tcacgcctta cttcttgcct taagaaaaga   240
gaagaaatga aactgaagga gtgtgtttcc atcctcccac ggaaggaaag cccctctgtc   300
```

```
cgatcctcca aagacggaaa gctgctggct gcaaccttgc tgctggcact gctgtcttgc    360
tgcctcacgg tggtgtcttt ctaccaggtg gccgccctgc aaggggacct ggccagcctc    420
cgggcagagc tgcagggcca ccacgcggag aagctgccag caggagcagg agcccccaag    480
gccggcctgg gaggaagctc cagctgtcac cgcgggactg aaaatctttg aaccaccagc    540
tccaggagaa ggcaactcca gtcagaacag cagaaataag cgtgccgttc agggtccaga    600
agaaacagtc actcaagact gcttgcaact gattgcagac agtgaaacac caactataca    660
aaaaggatct tacacatttg ttccatggct tctcagcttt aaaaggggaa gtgccctaga    720
agaaaaagag aataaaatat tggtcaaaga aactggttac ttttttatat atggtcaggt    780
tttatatact gataagacct acgccatggg acatctaatt cagaggaaga aggtccatgt    840
ctttggggat gaattgagtc tggtgacttt gtttcgatgt attcaaaata tgcctgaaac    900
actacccaat aattcctgct attcagctgg cattgcaaaa ctggaagaag gagatgaact    960
ccaacttgca ataccaagag aaaatgcaca aatatcactg gatggagatg tcacattttt   1020
tggtgcattg aaactgctgt gacctactta caccatgtct gtagctattt tcctcccttt   1080
ctctgtacct ctaagaagaa agaatctaac tgaaaatacc aaaaaaaaaa              1130
```

```
          <400> 6761
gttttgtttg tgtgtttttt ttgcataata ccaaagaatt tattgtaaat gtagtggcaa     60
atacattcag aataatcatc attaaaaagg aactagaaaa ttatacatgt ttaaagtatg    120
tgctttttc ccaccacctt taagttaatg gctagtacca acattttaag taatgaaata    180
cttaatgtga tgacccattt tcagataatt tcatgactgt atcttcatct taattttaa    240
agcagttgac catgaatttc agtttcagtt attctctgtt tttatcaatt ccgtaatgat    300
ctgcagaatc ttgtcatttt caagggacat ctttggattt tcaagctttt ttcttaaaac    360
tgaatcaatg agaactctca gctgcttgaa aatgacagct atctttacag gggcctgaaa    420
atagatccag ccatcaatag aaagaagacg ttctcggtgc tgaacttcta tatcaccacc    480
aaaaagtaaa actgaaaag gggttattag ggtagtttct ctcaaataca ctctggcata    540
ccttatcttc tcctggtata agagccatcc atgagtttgc aaatctcgat ttactgagga    600
tgggtgtact tgtgctttgc cttgggccgt ctccacaatg caagccaatt tttctgtaac    660
atccactgac tttgtataga ttatcttccc cacattgtca tacagtccag ccaccagtac    720
agctttaaga agggcaattt cttggaatga gagggtctgt gaggctctgt ttccttccca    780
gctggtagaa gttgtggaag atgaaaatcc tgctgcctta accaacttta ttaactcctg    840
ctttacatcc tctagggtta acagtgatgt tctattaaga aagttcctcc ggcagtatgt    900
gatttcagaa cgataacctc cttcttgtcg tgctttcttc catcctagat atgcattgta    960
gatcgtcagg tggtctgaat ccgccatggc caaagctgat tttgcaagat ctgcttcatc   1020
ttttcgacca attggtgtgg taaaaggaga cttctctgtc ataactgcag ctagtgttgc   1080
cactgggtca aggcagccaa atatggcacc aaaaataagc atcttgccaa tcttgacatt   1140
cacaggtaaa gctgcaaggt gttggcccaa cggagtcagt ttaggctcat ttaattcaca   1200
agctccaatt tttcggagca aattcattgc attgctgatc acttggagct gaggaggatc   1260
taaggctttg gagaggaaat cttcaggaga accaagatta catttcataa tatgaaggca   1320
taattcctcc aaaggtacac gtaagatttc aggaacagaa taatccataa agccttcaaa   1380
```

5428

```
tctttctctt gtgtacattc ggaaacagaa gccatctctg acccgcccag ctcttccctg    1440
gcgctgcaaa gcactggctt tactgacaaa cgtctccacc aaagaactca tctgactgct    1500
ttcatggtac ttattttctt ttgttcttcc agtatcaatt acaaatacaa catcaggaat    1560
agtgataccc gtctctgcaa tattggttgc taaaacaatc ttcctgactc ctggagggggg   1620
aagtgtgaat gctgcagctt gatcttgggt tgaaagaata gaatgcagag ctatcacttt    1680
atatcgttca gaataaaatc ttctatcatt tgatagaaga tcatacaact gctgaatatg    1740
agcaagtcct ggtaaaaaga tcaatactgc tccttcaata tttctgaatt ggggactttt    1800
atctaagtat gcaagaagtt ccaaaatgag atccaggttg attttatgag gattcatgta    1860
tagaatagca tgctgagtgc ggctgctgta cttttggtaa aatggattta aatcagcatg    1920
tgctccagtc tgaactggga tgtattcctg atatttttt attcccctg ctttgcttgt     1980
aacattaatg gttacttctt cttcctcttc cagaaatttc tgacaatatt ctgagtcttt    2040
ttccagtaca aagcctgttt cttctattat atcttcaaga tgaaaaacct caacaggata    2100
acttcttcct gaaattctga gaatggggca gtgtgtgaaa tatgtagaaa attttttcgct   2160
gtccacagtg gcactcatta gaatcaagtg tagatcagaa cgtttctgta aaatttcctt    2220
caagataatt agtaggaagt ctgactggac acttcctttc atgaaacctc atctacaata    2280
aacatggaga cacattactt agaagaccat cttcttgaag tttccttagc aaaacccctg     2340
ttgtacaata gagtaacctg gtagattcac aagctcgaga ttccatccgg atctgatatc    2400
cacacaagga attccttcct ccaggtccat tttcacagcc caattcatca catactctgt    2460
tggctaaact aactgctgag attcttcggg gttgggtaca gacaatgtta catttacttg    2520
cttcccactc atttagaagc aaatcttcca atagaaaatg tggtacctga gtactttac    2580
cactccctgg tttcacctgc cacaaccact acccgatgcc ttttaagagt ttcaacaatt    2640
gagtcccgat gtttaaatac aggtagctag ttagtctttc ctttagaagt ttctgaatac    2700
ttaggtgtgc tttgcaactt tctaaagagg tttctaacag gttccaaatc ttccacattt    2760
gctgattcca aggacagtgc agaaaaatcc tcatccgaaa ctaaattttc ccaagattcc    2820
tcgggatctt cagagttttc tctcttattt tcagaatgct gttgttgctg ctgttgctgc    2880
tgtttcagtt tattcagaag tttggcaata aaaagatcac gtggtttatt ggtttccatt    2940
ttatttaatt cttcccttttt cttttctgca tcactccact ccagccaaac atctcggtaa    3000
gtgggaggaa gtaactgatg aactgactgc cctttaacta aacggtaaag ggctaaagta    3060
gctcccaggt gctgagcttg catgccatct tctgttaaga ttgtagggca tactaccagg    3120
acatcatctt cagacttgat taccctaacc ctacatttcc agtatctacc tactggaact    3180
ttttcaaagg aaggatttgg actcttggga agattcttcc tgacccaatc aatcagaaat    3240
tgtttgggag attttccagt ccaacttcga gcaggatagt caaaatttct tacatcatga    3300
ggttcgttgt ttctaacttt ctcttcctta ggcggcacct gccgaattct ttaaataaag    3360
tataaactca ttgcactttc tcctttttaga ggctcaac                           3398
```

<210> 6762
<211> 2709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (92)...(1179)
<223> similar to gi33971 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6762
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cgaggcgctc ccggagctga gcgcttctgc tctgggcacg catggcgccc gcacacggag      60
tctgacctga tgcagacgca aggggggttaa tatgaacgcc cctctcggtg gaatctggct     120
ctggctccct ctgctcttga cctggctcac ccccgaggtc aactcttcat ggtggtacat      180
```

5429

```
gagagctaca ggtggctcct ccagggtgat gtgcgataat gtgccaggcc tggtgagcag    240
ccagcggcag ctgtgtcacc gacatccaga tgtgatgcgt gccattagcc agggcgtggc    300
cgagtggaca gcagaatgcc agcaccagtt ccgccagcac cgctggaatt gcaacaccct    360
ggacagggat cacagccttt ttggcagggt cctactccga agtagtcggg aatctgcctt    420
tgtttatgcc atctcctcag ctggagttgt atttgccatc accagggcct gtagccaagg    480
agaagtaaaa tcctgttcct gtgatccaaa gaagatggga agcgccaagg acagcaaagg    540
cattttttgat tggggtggct gcagtgataa cattgactat gggatcaaat ttgcccgcgc    600
attcgtggat gcaaaggaaa ggaaaggaaa ggatgccaga gccctgatga atcttcacaa    660
caacagagct ggcaggaagg ctgtaaagcg gttcttgaaa caagagtgca agtgccacgg    720
ggtgagcggc tcatgtactc tcaggacatg ctggctggcc atggccgact tcaggaaaac    780
gggcgattat ctctggagga agtacaatgg ggccatccag gtggtcatga accaggatgg    840
cacaggtttc actgtggcta acgagaggtt taagaagcca acgaaaaatg acctcgtgta    900
ttttgagaat tctccagact actgtatcag ggaccgagag gcaggctccc tgggtacagc    960
aggccgtgtg tgcaacctga cttcccgggg catggacagc tgtgaagtca tgtgctgtgg   1020
gagaggctac gacacctccc atgtcacccg gatgaccaag tgtgggtgta gttccactg   1080
gtgctgcgcc gtgcgctgtc aggactgcct gggaagctct ggatgttgca cacattgcaa   1140
ggcccccaag aacgctgatt ggacaaccg ttacattgac cccagcaggc gtcaccatcc   1200
accttccctt tctacaagga ctccattgga tcttgcaaga cacttggac cttttgggttc  1260
tttctggggg gatatttcct aaggcatgtg gcctttatct caacggaagc cccctcttcc   1320
tccctggggg ccccaggatg ggggggccac acgctgcacc taaagcctac cctattctat   1380
ccatctcctg gtgttctgca gtcatctccc ctcctggcga gttctctttg gaaatagcat   1440
gacaggctgt tcagccggga gggtggtggg cccagaccac tgtctccacc caccttgacg   1500
tttcttcttt ctagagcagt tggccaagca gaaaaaaaag tgtctcaaag gagctttctc   1560
aatgtcttcc cacaaatggt cccaattaag aaattccata cttctctcag atgggaacag   1620
taaagaaagc agaatcaact gccctgact taactttaac ttttgaaaag accaagactt    1680
ttgtctgatc caagtggttt tacagctacc cacccttagg ggtaattggt aattacctgg   1740
agaagaatgg ctttcaatac ccttttaagt ttaaaatgtg tatttttcaa ggcatttatt   1800
gccatattaa aatctgatgt aacaaggtgg ggacgtgtgt cctttggtac tatggtgtgt   1860
tgtatctttg taagagcaaa agcctcagaa agggattgct ttgcattact gtcccccttga  1920
tataaaaat ctttagggaa tgagagttcc ttctcactta gaatccgaag ggaattaaaa    1980
agaagatgaa tggtctggca atattctgta actattgggt gaatatggtg gaaaataatt   2040
tagtggatgg aatatcagaa gtatatctgt acagatcaag aaaaaaaggg agaataaaat   2100
tcctatctca tattatgcat gtgacccatg gaatctcata actgaaagac ttgaaggatg   2160
aaaattttgg ggatacaaga ttggttaaac taaaatgctg acagagaggt ttccagagct   2220
aactcgtgcc tggggcggcc ttacaataag cagatgcctg aaagaagtcg gccacgtccg   2280
ccgtctgcta atgcccatca cccttcaagc ccagtttaaa gacctgtcat atttaattgt   2340
atttatttga tgcttacaag atgaatgtga tactgtagcc taaagcaaaa tgacacatag   2400
cattgcttat aaagttggta accctgctat attatattgc aaacaaatcg taacttggag   2460
actatgttta agggactcaa ctgtaattat gggagcatca gtatgcaaat agtggttggc   2520
ttctgccatc agccaaaaga tgacattcag ggaaaatgga gaggctgcct gcaccgtttt   2580
tttatgttaa atgaaagaaa ggtgaaatag ctacttctcg tcttcttgaa aaatttggtt   2640
cttattctgt atatgacttc cttacagtgc tacattaaca ggatatttca ttacatgcat   2700
ctggtatca                                                          2709
```

Run with FASTXY 3.3t00, default parameters

<400> 6763
tgcggccgca gccccgggct cgcgtaggcg ccgaccgctc ccggaccgcc cccatatggc   60
ccacggctac gaggcgccgc cgccgccagc cccgcggagc cccgcatggc gggcccggag   120
taagccggta gctgccgggc atcaccatca acccctacca tcgccgaggg cccatccccc   180
taccagcgag ggcgcctccg aggcaaacct ggtggacctg cagaagaagc tggaggagct   240
ggaacttgac gagcagcaga agaagcggct ggaagccttt ctcacccaga aagccaaggt   300
cggcgaactc aaagacgatg acttcgaaag gatctcagag ctgggcgcgg gcaacggcgg   360
ggtggtcacc aaagtccagc acagaccctc gggcctcatc atggccagga agctgatcca   420
ccttgagatc aagccggcca tccggaacca gatcatccgc gagctgcagg tcctgcacga   480
atgcaactcg ccgtacatcg tgggcttcta cggggccttc tacagtgacg gggagatcag   540
catttgcatg gaacacatgg acggcggctc cctggaccag gtgctgaaag aggccaagag   600
gattcccgag gagatcctgg ggaaagtcag catcgcggtt ctccgggggct tggcgtacct   660
ccgagagaag caccagatca tgcaccgaga tgtgaagccc tccaacatcc tcgtgaactc   720
tagaggggag atcaagctgt gtgacttcgg ggtgagcggc cagctcatag actccatggc   780
caactccttc gtgggcacgc gctcctacat ggctccggag cggttgcagg gcacacatta   840
ctcggtgcag tcggacatct ggagcatggg cctgtccctg gtggagctgg ccgtcggaag   900
gtaccccatc ccccgcccg acgccaaaga gctggaggcc atctttggcc ggcccgtggt   960
cgacggggaa gaaggagagc ctcacagcat ctcgcctcgg ccgaggcccc ccgggcgccc   1020
cgtcagcggt cacgggatgg atagccggcc tgccatggcc atctttgaac tcctggacta   1080
tattgtgaac gagccacctc ctaagctgcc caacggtgtg ttcacccccg acttccagga   1140
gtttgtcaat aaatgcctca tcaagaaccc agcggagcgg gcggacctga agatgctcac   1200
aaaccacacc ttcatcaagc ggtccgaggt ggaagaagtg gattttgccg gctggttgtg   1260
taaaaccctg cggctgaacc agcccggcac acccacgcgc accgccgtgt gacagtggcc   1320
gggctccctg cgtcccgctg gtgacctgcc caccgtccct gtccatgccc cgcccttcca   1380
gctgaggaca ggctggcgcc tccacccacc ctcctgcctc accctgcgg agagcaccgt   1440
ggcggggcga cagcgcatgc aggaacgggg gtctcctctc ctgcccgtcc tggccggggt   1500
gcctctgggg acgggcgacg ctgctgtgtg tggtctcaga ggctctgctt ccttaggtta   1560
caaaacaaaa caggggagaga aaaagcaaac cgcgccatcc tgcttctttc ttccgttcgg   1620
cgttgggtgc tgggctttgc ttcagcccag cacggagagg acatccctga gctgacccgc   1680
atcgccgggc gccgaggctg gagggcgcag ggccctccct tagggagagc tcgcctctcc   1740
ctttgggtca agggatgaag acctgcagtg agcccccagg cgatggcggc tctcgccaaa   1800
aggaaggaga gtgaggctgg gggcggcggc tcatgcctgt cattccagtg ctttgggagc   1860
ctaaggcggg aggatcgctt gaacccaggg gattgaggct gcagtgaacc tcgatggtgc   1920
cagtgcgttc cggcatgggt gacagagcaa ggctactgaa aaaaagaag ggaaatgcca   1980
cctggtttcc ctctgtgtcc tccccgccac catctctgcc cctgtggaag gcagagcttc   2040
ggccttccgt gatggaaacc acttcctcta cactgctcct gtcacgtagc ctccgcggga   2100
aggccgcccc tgcctcttcc ccagcgtggc accatcctct ccctgtcccc ccgcttcagg   2160
gagtgggggc tc   2172

<210> 6764
<211> 4368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (273)...(3033)
<223> similar to gi4537894 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

        <400> 6764
        gaattccccg atgtacttct gcattaaatt ccttgctttc agaatcataa ccagggaatc   60
        gtttggtact gtgagggata gacaagccct catttctgta atccctgcta agtgaggtca   120
        aggctgacat ctaagatgtt ctgtggcgga acctggcccc catcagggc aaccttaat   180
        ttggattctg gaagactaaa actttgagat ctctcccccg cccccaggc tcccccggta   240
        gctctcctcc ggcggtggcc cgcgctcggt ggatgtggct ggcagctgcc gcccctccc   300
        tcgctcgccg cctgcttttc ctcggccctc cgcctcctcc cctcctcctt ctcgtcttca   360
        gccgctcctc tcgccgccgc ctccacagcc tgggcctcgc cgcgatgccg gagaagaggc   420
        ccttcgagcg gctgcctgcc gatgtctccc ccatcaacta cagcctttgc ctcaagcccg   480
        acttgctgga cttcaccttc gagggcaagc tggaggccgc cgcccaggtg aggcaggcga   540
        ctaatcagat tgtgatgaat tgtgctgata ttgatattat tacagcttca tatgcaccag   600
        aaggagatga agaaatacat gctacaggat ttaactatca gaatgaagat gaaaaagtca   660
        ccttgtcttt ccctagtact ctgcaaacag gtacgggaac cttaaagata gattttgttg   720
        gagagctgaa tgacaaaatg aaaggtttct atagaagtaa atatactacc ccttctggag   780
        aggtgcgcta tgctgctgta acacagtttg aggctactga tccgcgaagg gcttttcctt   840
        gctgggatga gcctgctatc aaagcaactt ttgatatctc attggttgtt cctaaagaca   900
        gagtagcttt atcaaacatg aatgtaattg accggaaacc ataccctgat gatgaaaatt   960
        tagtggaagt gaagtttgcc cgcacacctg ttatgtctac atatctggtg gcatttgttg   1020
        tgggtgaata tgactttgta gaaacaaggt caaaagatgg tgtgtgtgtc cgtgtttaca   1080
        ctcctgttgg caaagcagag caaggaaaat ttgcgttaga ggttgctgct aaaaccttgc   1140
        cttttataa ggactacttc aatgttcctt atcctctacc taaaattgat ctcattgcta   1200
        ttgcagactt tgcagctggt gccatggaga actggggcct tgttacttat agggagactg   1260
        cattgcttat tgatccaaaa aattcctgtt cttcatcccg ccagtgggtt gctctggttg   1320
        tgggacatga actcgcccat caatggtttg gaaatcttgt tactatggaa tggtggactc   1380
        atctttggtt aaatgaaggt tttgcatcct ggattgaata tctgtgtgta gaccactgct   1440
        tcccagagta tgatatttgg actcagtttg tttctgctga ttacacccgt gcccaggagc   1500
        ttgacgcctt agataacagc catcctattg aagtcagtgt gggccatcca tctgaggttg   1560
        atgagatatt tgatgctata tcatatagca aaggtgcatc tgtcatccga atgctgcatg   1620
        actacattgg ggataaggac tttaagaaag gaatgaacat gtatttaacc aagttccaac   1680
        aaaagaatgc tgccacagag gatctctggg aaagtttaga aaatgctagt ggtaaaccta   1740
        tagcagctgt gatgaatacc tggaccaaac aaatggattt tcccctcatt tatgtggaag   1800
        ctgaacaggt agaagatgac agattattga ggttgtccca aaagaagttc tgtgctggtg   1860
        ggtcatatgt tggtgaagat tgtccccagt ggatggtccc tatcacaatc tctactagtg   1920
        aagaccccaa ccaggccaaa ctaaaaattc taatggacaa gccagagatg aatgtggttt   1980
        tgaaaaatgt caaaccagac caatgggtga agttaaactt aggaacagtt gggtttttatc   2040
        ggacccagta cagctctgcc atgctggaaa gtttattacc aggcattcgt gacctttctc   2100
        tgccccctgt ggatcgactt ggattacaga atgacctctt ctccttggct cgagctggaa   2160
        tcattagcac tgtagaggtt ctaaaagtca tggaggcttt tgtgaatgag cccaattata   2220
        ctggtatgga gcgacctgag ctgtaacctg gggaattcct caactctctt gtccacacag   2280
        acttctatga ggaaatccag gagtttgtga agatgtctt ttcacctata ggggagagac   2340
        tgggctggga ccccaaacct ggagaaggtc atctcgatgc actcctgagg ggcttggttc   2400
        tgggaaaact aggaaaagca ggacataagg caacgttaga agaagcccgt cgtcggttta   2460
        aggaccacgt ggaaggaaaa cagattctct ccgctgatct gaggagtcct gtctatctga   2520
        ctgttttgaa gcatggtgat ggcactactt tagatattat gttaaaactt cataaacaag   2580
        cagatatgca agaagagaaa aaccgaatcg aaagagtcct tggcgctact cttttgcctg   2640
        acctgattca aaaagtcctc acgtttgcac tttcagaaga ggtacgtcca caggacactg   2700
        tatcggtaat tggtggagta gctggaggca gcaagcatgg taggaaagct gcttggaaat   2760
        tcataaagga caactgggaa gaactttata accgatacca gggaggattc ttaatatcca   2820
        gactaataaa gctatcagtt gagggatttg cagttgataa aatggctgga gaggttaagg   2880
        ctttcttcga gagtcaccca gctccttcag ctgagcgtac catccagcag tgttgtgaaa   2940
        atattctgct gaatgctgcc tggctaaagc gagatgctga gagcatccac cagtacctcc   3000
        ttcagcggaa ggcctcacca cccacagtgt gaatcctgag gttgcgccat ggcggttct   3060

                                    5432

```
gctcgttcgc tgcagggata aggtggagct accgaacagc tgattcatat gccaagaatt   3120
tggagtcttc tttcaaacca gtgggggttg dacaatgaat gtagttaact ggttcctgct   3180
cacactccag aattaaattc tattgaaaaa ggaaaatcag caattcagca aaaaaataaa   3240
taaaaaataa aaatgtaaat atgatagtaa taaaatagag cataacgaaa ctgtgaaact   3300
ttctgaagcc ttgtcagtgg ttaaaagtat ttaacactct actgttaatg acagatgttc   3360
tgttttttata acctaccaaa aggaaactag aggcttcttg gtgaagagca tttttgtgaa   3420
gtgggttctg caaggagcct ataaagccaa gggtggtgtc catttctggg aatggttaaa   3480
cacaaaaggc tgatagctgg tatcacatag ttggagtcag tgcataattc caagtggctt   3540
tttttttttt tggcacgggg actgatcagg aagatatatt cctgcataac tcaatctgaa   3600
ccaaggattg tagtttagtt ttcctccttg ccttcccttc tgtgtgaccg accccttggc   3660
caaaaaaaaa acaaaaagca aaaaacaaaa acctaccctg ttctggtttt tttcctccct   3720
ttagttccac ccccaacccc cattccctgg tgtccttctt agagatgaag aaataataag   3780
gaaacatctt tcatagccac attaaataag agaaactgat atacattatt ttttctttt    3840
taaagatgac ttataagaac cctgaaattt atataggtga dacaatagaa ataaaaagat   3900
cttcagccag gcctttctga aggagttatt ctgctaaaaa tggtcttagt tgtctgaaaa   3960
gccagctctt gaacctcttc acaacagtat caacactggc ttctcccggt tcatttttatg  4020
cgtgcgagaa gtcagtggta actgctgcag ggcttaatac attagtggta actggtttaa   4080
aaaacaaaga ctgtaagcct gtgtgtgcca ctgtttgctt caacagtata tcctactaat   4140
aagcctcacc tatttaatcc aatgagtttt aaatctaaat ctcattccct tcttctttcc   4200
ctacctttt  tttctttttt tcttaaaaaa atattttgtg ttattaacag aaattcatat   4260
ttggtgtggc ttaacggtat ttcagaaggt catcagattg tgagactgct tccttgaaac   4320
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```

        <400> 6765
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tgcactcttt tcagcactca gaaggaactg tgagctttta tactactaca gccccagtat   120
ctcagcggta accatgggga aaaaagtctt gttttccaaa ggaaatgag  agttgggagg   180
agccttaata taagcagtga ggccagccgg gtggccccag gaagaactag gtgtcttgac   240
acctaatcca cacagcaggg aaaggggctg ggtgtgatgc acagtgcact gattttattt   300
acagatcaaa agccacttaa ataatctgca gacacaagtg ctgtccaggg cagaagcctg   360
gggtccaaat cagccttatc cctcctcatg cccacagtca gcccaatgct gtctccgttc   420
catggccag  cacaggcagg cgccactctg ctgacatgag gacctggggt agctcagaca   480
tttgactacc caagcccaga aaggagctgg gtccagccct tacggggaat tcctttaatt   540
cccccaggcc aggtgagtgc tgactcagtg atgacaacag ctgtagaagt aggggtttgg   600
cttctggccc agatccacgc ccttgtcctc tgtcatcacc tggaaggcag ccacactgac   660
gtaatcctct gccactttct ggaagagctc gtccacactc tggcctgtct tgctggatgt   720
ttcaaagagc tgagctttga tattgtctgc atagtcctgg acgtcgtgga agtccacacg   780
tcgacgcctc cggtcttctt ccagcaggtc actcttggtg ccacataagt agatttggca   840
gccctcctct aggctgcgca gttccttcac ccagaacttt gctcgctcaa agctgctgct   900
```


                                5433

```
gtctgtgagg tcatagcaga cgatggcagc cttggcaccc cgatagtaga ttctactcat      960
ggcctcatag cgctcagagc ctgctgtgtc ccaaatacct aatgtcacag tccggtctcc     1020
gaccgacatc accttggcca cgaaggcggc cccgatggtc tgcaacgaga gggaagagat     1080
cggggccata ggtgcagatt accggccccc cactcccccg cccaccgtgc ctggcccctc     1140
cggatgcact cacgttctga taaggcccca ccagaaagcg gtcgtgcacg tagcgctcca     1200
ccaggctagt cttgcccacg tactccttgc ccagcatcac caccttgacg tccacgcgct     1260
gcccgctcat gctcccgggg ccgcttcagc cacgtcaggg tcctacgact ccagacagcg     1320
cgtcgggctc gagctctggc cgtggccttg cacttcggca cgccccgtg tgcccccgct     1380
gttcggcccc gggcgccgat tatccttcga agaccccaag cctcggggcg gcctgggagc     1440
gcgcgggaca gcgtcctcaa cagcgcagca cgccgccgtg cagctcgcta ctccgtcatt     1500
cgctcgcctg cccggcttaa gctccgttct ggctgggaat cccaaccgaa cctggggtct     1560
cccgcaaccc gggtcctacc cgcagcgccg cgactc                              1596
```

```
<210> 6766
<211> 3828
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3672)...(3395)
<223> similar to gi1710216 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6766
acatccacgg gaacctgggg aaggcctgca tccccgacac catccccaac cgcgtgacag       60
accacacctg tcccagcgga ggcccccctct cacccagcct caccaccccg ctgcccccgc     120
tagacatctc tgtggctgag cagcagcagc tgagctacat gccgctgcgg gatgattacg     180
agatcgagta tgaccaggat gccgagacgc tcatcagcgg gctctctgtc aactatgatg     240
acgacgacgt ggagatcgag ctgaagcgcg cccacgtgga catgtacgtg cggaagctga     300
aagagagaca gcggcggaag aacatcgccc gtgactacaa tctggtgcca gccttcctgg     360
ggaaggacaa gaaggagaag gaaaaggcgc tgaagcgcaa gatcaccaag gaggagaagg     420
agctgcgcct gaagctgagg ccgctgtacc agttcatgtc atgcaaggag tttgatgacc     480
tttttgaaaa catgcacaaa gaaaaaatgc tccgggccaa gatccgagaa ctgcagcggt     540
accggcgaaa cgggatcacc aagatggaag agtcggcaga gtacgaggca gcgcggcata     600
aacgggagaa gaggatggag aacaaaaacc tagccggctc caaacgggga aaggaggacg     660
gcaaagacag cgagttcgcc gccattgaga accttccagg cttcgagctc ctgtcagatc     720
gcgagaaggt gctctgcagc tctttaaact tgagtccagc ccgctacgtg actgtgaaga     780
ctattataat taaagaccac ctccagaagc ggcaaggaat cccctccaaa agccgccttc     840
ctagctacct ggacaaagtc ctaaagaaaa ggattttgaa tttcctcaca gaaagcggct     900
ggatctccag ggacgcgtct tgaagctgag acgctttgaa agccagggtg atgctcagac     960
agtgtgccag ccaaaatgac ttggggggagg ggagccgctt ccccactgtt gctctttttt    1020
aaacaaattg agttcctttt tttaagatag aaattctttt catggtcctc tgaaagaagc    1080
aatagtaaca atcttatatt ggatcatggg ggaagcaaat gtgtgtattt taagtgagtt    1140
cctgcgagtc atacactgcg atgatgctcc gcctttaccc gttcagttgg gagcttattg    1200
tgagattgga tcatttcctt ttgagtgttc ttctctttgg tacaaaacct attgtgggtg    1260
acaggagcag tgttttcctg ctggacccgc aagccaccag ctatttcctg gtgacacaag    1320
ctcttctcag gcggggctgc ctgcaggctc ccgttttctg agcccacgct gcccacagct    1380
gaccccagcg cagccccggg cacgcggcac tttacatggg ggcagcttgg gcccagactc    1440
ctccgctgtg tagcagatga ggaaaatcag gccagaggac aacaggctgg cgttttgttg    1500
```

5434

```
ggaactgaag aggaatctgt tgaacacagc gaccagatga ccttccattt caccggcggc   1560
agcagtttca gcgtgcagtt cccaaacccc aaagctgacc ctgcgcccca tttgaatacg   1620
gccagagcct gctggttcac tttgggtaga gccgtgcctc ttgggcaggc tcccatagtg   1680
accacgtccc cacgaatggg aaagcacgtt agtgggaggg acgtaggaca cgtgtggacc   1740
gccaggccct ctcagtccat ttttccgggg ctgctcggtgc tgctgttaag acgtgagtgc   1800
atttcacttg gaagaaccca ttgtacaaag ttcaaggcta agagttctga attctggcgt   1860
cagcttcctc aggattttct tcagttgcaa gtacctttcc actgaaaata tgagcatgcc   1920
cgcctggcta gtaggcatct gtaagagtgt cgccaggccc gcgccagctg aggcctcaga   1980
ctagccaggc aagagccgtc tgaccagttg gctggcggtg gttctggtgg agcacgaggg   2040
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ccacggtacc ttcctcctga aacttgagga agtcttttgt cttccagctg ctcagggttc   2220
tctggtccaa gaccctgctt taaagagagt ctttggcgtg ctcagactcc agcgctccgt   2280
tcttcaagga ggttgacttg cctctcgggc cccgtaggta ccaagagact gtttacctcc   2340
cagaatgttt gggcttgaag ttacattaaa gtgaagttat ttgaaagaaa gaaaacctca   2400
tcatttctaa ggatgactta attactgtgc cttttccttt ctttttacac atcctactgt   2460
cccttagggt aaaattttca gcattaaata aaacatttca aatatattgt atatggcttt   2520
agttgtaaac tatactgcat gctgacagag aagcgctctt ttagctaagc ccagaacttc   2580
tcttttgaca ataaagtact gagcagtggt atcatgaggg ccacctccac attgtcccct   2640
gcagaataaa tgcggatgac agaaagctta tgctgtctac cactgaacag tgatggagat   2700
ggtgctaagt ttttacagtt gtcttaaccc cagtggttct caaggtgggg ctcctggccc   2760
agcagcagca acttgtttgt tagaatgcag acgcgcaggc cccacctggc ctcctgaatc   2820
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cgcaggatcc tagtttggtg aggtttttaaa tttaatctta tttttatata aaatgattgc   3000
cagacggtac tatattaagc ttgaagaagc agaagatccc tgttaatgtg tatggcccag   3060
gccaagagct gtcaaatgaa aaactttgtg ctgaagcagg tttttagtat gtatatcttt   3120
ttgatggtat gaagaattta tttaggcttg actgttttaa aacaccataa tgaatgtata   3180
attaatttat gttaaagtat taaccctttg tcacaaagga atggtaatgt gattggctgc   3240
ctgttagccc atcgactatt cccgtcacgg tagtccttac ctctgtcggc agctcagagc   3300
ctccacattt ttatatttaa ttctcatgat aaattagcca ccataatccc atggaattag   3360
gtcttgttaa aatctagtcc gggcgcagtg gctcacgcct gtaatcccag cactttggga   3420
ggccaaggcg ggctgatcac gaggtcaaga gatcgagacc atcctggcca gcatggggaa   3480
accctgtctc tgctgaaaat acaaaaatta gctgggtgtg ggggtgcatg cctgtagtcc   3540
cagctacttg ggaggctgag gtaggagagt tgcttgaacc tgggaggcgg aggttgcggt   3600
gagctgagat cacgccacta cactccagcc tggtgacaga gcaagactcc atctcaaaaa   3660
aaaaaaatct aagcaaacta tctttgagtc aaaaaaagtt ggataactca tctatatttg   3720
aaataatgct gtctgaatgg ccaacatccc aagaatgtat taaaaacagc aacctgccta   3780
ccgtttttgat gaccttttttc catattaaac aagttgagaa caaaaaaaa              3828
```

```
<210> 6767
<211> 2533
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2534)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1180)...(84)
```

<223> similar to gi4490341 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6767
cggcacgagg ttttttttaa aagaataaaa tttattgtac tctcctcgcc ccagggtgcc   60
cctgggaaag cctgaggcta cttgtacgcg ttggccttgt gcttcggcaa gaaggcgaag   120
ctggggggca ctggcccaag gagcatctcg ctgatgcgga tccagtcggc tgccttctgg   180
ctggccatca gcgtctccag gtagtcgcgg cccaggtagt agggcggccg ctcgttgatc   240
ctcttgtggg agccgctcca gcagccccac gggcacgtac cggcacagga aggacagcca   300
ctcgagcaga aagcggccgg gtcttctcca cgccctgcgt gttccgagcc ccagtgctcc   360
aggccgtagt tgtttgaagt ctcgcaggat gtccaggcgc tcggacgacg agatgtccca   420
gtgccgctgc tccttgatcc tccgtgaaga gccccgggct tgagcagggc gccacgggca   480
atcatgatcc ccgttgaaca ccaattctgc atggggggccg gttggcaatc ctcaaatgac   540
aagatgtccc catttccgaa acagggggca tggggctgcg gggcctgcac gcactcctcg   600
atgtactgcc agtcggctag cttggtgtag cgctgctccc gagagcggcc gtggagcgtg   660
acgagtgcca cgccccagtc ccgcagctcg ggcagcaggc ggtgcgccag gttcacacgc   720
tcctggacgc ctgtgcggat cttcacagtc agcggcacat ccagcacctg gttcatgcca   780
cggacgatct gctggaactt ggtggagcga ttcatgaggg cacagccccc acccttcttg   840
tacacgaggt cgatgggcca gccgacgttg atgtccacaa agtccacctc cacggtgcgg   900
ctcagcagct cggcacactt ggtcatggtg tcggggaagg cgccctccag ctggacgcca   960
aagatgtcct cacactggtg gcgtttgagt agggcccact cggacatctg gccctgcagc   1020
aggttggtgc agacggccat ctctccacat gtcacatccg ccccgaagcg cttgcagatc   1080
cgtcggaagg gcaggttccc acacgtggtg aggggggcca ggtaaagttt gccacggatg   1140
tccagccgct tcttctcaca gggccgcagc ctgaccacgt cctcatccgt caggggcccg   1200
caggtccgca cggggctgct gggaggggtg ctagtgcccg gccctgcggg gacctgctgg   1260
gcaccacagt tttcctgcct gggagcgccc tcggctgccg tgccctcggg gacagcggca   1320
gcgggtgtgg ggccctggct gaaccggcgc agggcctgct cagctcgctc gaagcggacc   1380
tcgcgcttcc gcagctgctg ctgcagggct ttgtccaggc cgttgcggat ggacgggggc   1440
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gccccagcga agcggcaggt cacgccgtag gggcaccggc cgaaggtctc gaagagcacg   1560
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gaggcagaga gtgagacgca gagaggaaga gaccaagaga gccaggctga gagagacaga   1860
gagagacaca ggcggagaca gagggaggtg tggaggtgaa gagggaggga tgggaggaga   1920
ggagccatta ggaagggacg cggggtcgac cgcgaggccc caatgcccga ggcgtcccaa   1980
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ggttcatgcc acggacgatc tgctggaact tggtggagcg attcatgagg gcacagcccc   2160
caccctggaa gagacaggcg ggtggaggga ggccagnacg tgggctgacc caagacccct   2220
caccctgct gcccggaggc ccccacaaga agacgccgac ctgcaggaaa ggcagggact   2280
ccagggccac acttgagccc aaacccctga ccctccaccg agacatcgcc ggctgggtca   2340
gtgcctccct gcccagatgg ggaaaccgag gcacacgtcc agggccgcta ccttcttgta   2400
cacgaggtcg atggggcagc cgacgttgat gtccacaaag tccacctcca cggtgcggct   2460
cagcagctcg gcacacttgg tcatggtgtc ggggaaggcg ccctccagct ggacgccaaa   2520
gatgtcctca cac   2533

        <210> 6768
        <211> 1201

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1202)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1104)...(196)
<223> similar to gi3334761 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6768
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tttttttttt ttttaaaatt aatcaaccaa cacccattct atttaaggtt ccaaaaggaa     60
gtagctggac ccggctgcag agcacactcc caccttgcgt tttgtcccaa aagtacatcc    120
cctacggggg gttctcctta aacaatttta atgtctgggt tggggaagca ggtagagcgc    180
gtagaggcag ctgctagagg ctggttgttg actccaggcc gcgttccagg aaatatcggt    240
gggaagaacg gggacgggct tgggaccctt cattgaggaa gtaggatgtg atcttcctga    300
gtccctcctg attctcggat gctgagtcct ctcttataac atcttccgcc tctttctcca    360
gggatggtct gggccgtgcg ccagctgaaa ccggacaaac tggggggaag ccggaacaca    420
ggctccacgt gctccttcaa ccacgccttt tgtcttgggg atcattgggg tagcctgagc    480
ccataatcag tatccaagtc ctgcagtttc tccacgaact gccatttctt cacggcctgg    540
tcccgggcca ccttggcaca gatgctggca gcactaaccc accgggtaga gggcatctgc    600
tttggccttg accgtcacct caatcccggg aaaactttgc tgcagccgcg cctggtatgt    660
ctctggcatc cctacggtgt ccacgaatac ctgggtgacg ttcacgccct ggtccaatgc    720
atactgtata agcccagtgg ctgtatcatg tgacagggag ttcaggttgt atttgacccg    780
cccaagcatg ctggtagaga tgaggtttgg agacagcaca tccagcgccc agccgacaaa    840
gtccgtgtcc tccattttcg caaacagcct ttcccgctcg ctctccaata gggtctttga    900
gtctgccact ttcagcgcct ccagatctgc caggcgaggc aggggacaat aacagatggc    960
gtagaccatg gggcccagca cggggcccct gcccgcctca tcgacgccca ggacgcaagg   1020
ctccttgcgg cacaccgcgg gcacaggcga actcaggcga cagcggcctg tattgtctct   1080
ctccagctcg ctgagatcca tgccgcctca gccgccacca ccagctgcaa gaactaatac   1140
tgcaggagcg ggtctcggcg cgcgttttcc gcgggcctcg aagcggcgcc tgctntcggc   1200
c                                                                   1201
```


<210> 6769
<211> 2113
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (177)...(1207)
<223> similar to gi5739567 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6769

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ggaaaggtct tgtcagacca tatgtgctgt ttcaggctgc ttcaaattct tttaggacag      60
tggtggatat gagtgaagac ggggcaggca ggccacatct cttataagag gaaggtgatt     120
gccacgtctc cttcctccat gctgatggca aggcgtgcgg gctgtgttct cttgcagcca     180
gcgtcccatg ctcggtggcc ccagaaaagt cagtgtgtag gcctcagcca cttcaggtcc     240
ggcgtacatt ctccctggac accatcctca gctcctacct tctgggccag tggccacgag     300
atgctgatgg ggccttcacc tgctgcacca atgacaaggc cacccagacg cccctgtcct     360
ggcaagagct agaaggtgag cgtgccagtt cctgtgcaca caagcgctca gcatcctggg     420
gcagcacaga ccaccgaaaa gagatttcca agttgaagca acaactgcag aggacgaagc     480
tgagccgcag tgggaaagag aaggagcgag gttcaccact cctaggggac cacgcagtgc     540
ggggagcact gagggcgtcc cctcccagct tcccctcagg gtccctgtc ttgcgactca     600
gcccctgcct gcacaggagc ctggaagggc tcaaccaaga gctggaggag gtatttgtga     660
aggagcaggg agaagaggag ctgctgagga tccttgatat ccctgatggg·caccgggccc     720
cagctcctcc ccagagtggc agctgtgatc atcccctcct cctcctggag cctggcaacc     780
ttgccagctc tccttccatg tccttggcat ctccccagcc ttgtggcctg gccagtcatg     840
aggaacatcg gggtgccgcc gaggagctgg catccacccc caacgacaaa gcctcctctc     900
caggacaccc agcctttctt gaagatggca gcccatctcc agtccttgcc tttgctgcct     960
cccctcgacc taatcatagc tacatcttca aacgggagcc cccagaaggc tgtgagaaag    1020
tgcgtgtgtt tgaagaagcc acgtctccag gtcctgacct ggccttcctg acttcctgtc    1080
ctgacaagaa caaagtccat ttcaacccga ctggctcagc cttctgcccc gtcaacctga    1140
tgaagcccct cttccccggc atgggcttca tcttccgtaa ctgcccctca aacccgggat    1200
ctcccettcc cccggccagc cccaggccac cacctcggaa ggatccggaa gcctccaagg    1260
cctccccact gccattcgag ccatggcagc gcaccccacc atcagaagag cctgtgcttt    1320
tccagagctc cctgatggtc tgagggtccc acccctgccc cactttacca tagagaccag    1380
tgccttggtg gcaggtccct ccccaggtcc cctgagatgg ggtatggagg ggcccttccc    1440
tctcggcctt cgagcacttt ctttcactta ctgtgtcaaa gccctgggtc ctctttttga    1500
tgggcaccgg cccctctgaa cgtgatggga cctgccttct ccactagtag ctgggcagct    1560
cacaattcac acctgtgtac ctgccacatc cctcacttgg tggaaaacac ccagaaggtc    1620
ttgagtcccc cacccctggg tgtcagtcca aatgactgta taggaggccc ttattttgt    1680
cacagagcaa gctggccatg aacgaaggag agaagacgcc acagatttcc ttccctctcc    1740
tccaggagac cataagatag atcccccatc ctctcagccc tattcccatg cctccctctc    1800
attggaggag ctgaccaaag cagccctaac gggccataac acttgaccaa ttcagctgct    1860
ggcagaggga ggaaacaagt gttttcccaa gtggcatttt catctcgctt tcaccctgac    1920
ttaagacaat ctttagtcag ggtgaaagcg agatgaaaga ttgtcttaag tagcagccca    1980
gcccgcccag ccccaggtgg gtagtgggga ggagagctgg cattcctcca ggtggcaaat .   2040
ggcgactcta tactctccgc ccgccccagg gctggatgga ttagaaaaat gcctattttt    2100
cttgtatcga tga                                                        2113
```

<210> 6770
<211> 1368
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1342)...(543)
<223> similar to gi3980034 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
<400> 6770
tttttttttt ttcaaaacat agttattttt acttttttaag ttatataaat aatatacatt        60
ttcaatatag gaaaatggga agatacagat aagcagtggt cttatatata tccttgcagc       120
ttttttcccct cggacataca tattttgtta cagtaattcc tgcatctcaa aaataataca       180
aaaagtgaaa ataagtttag accagcctta accttagctc aggtgctaat ttatatataa       240
atctatgtgc attcatttca attttgactt acaaaatcta aagtgatgct gttataatac       300
taaaagattc cactttaaac agcagcagtt tcagaataat taaaaatttg attcaggcat       360
gaggctgata aagaacgaag ttttactttt tttcattaaa ataagtagct ttctactatt       420
gcatcctttg aagagaagaa tgttctgctg gtttggccac aagctcttta gatggttact       480
tttagtaaac tcttcattca tcctggcatt cttgaaaata ttcgtcaaac atagaggaag       540
actcatcttc acgttccttt ggttctttaa attctaggtc ttctccatat tgaatggcaa       600
aatcaatatg ctgcaataca atgttcatgc tttcttcatc tgactgatcg taaggtaaaa       660
atcgaaccat gctgtagtca tcaatcagtc cacatatagc tttagtcagt ttcttgaatt       720
ttttgcttct taagtcactt gtagaatctt ctaataaaga atacatgtct ggatctaaaa       780
atttctcaat ttcctttttt gcttttttac tcagcagatc cattttttgtc atgatgttga       840
cttgcggaat ttctagagag atcatggcac tcagggctgc caagatgcca gaaataaact       900
tgaatgactc caccatgaac tgagaatcaa caagaaaaac tccacagact cggaaccca       960
ctgctcgagc tgctggacca gctgtttcat cacaggcagg tgagtgtaca actcaatctg      1020
acctggacaa tcaaaaagga tatagtcgtc ctctacatgg ccaagacagt tctccagcca      1080
gtcaaaatta ttggcaaagt actccatgca aaataccaat cctccgttgg gaccgaatcg      1140
cagagaatca tcctccatta catcatccac ctcgatcagt tcccggatgt cagccatcac      1200
ggagtagttg aagtgttctg ctgctggatc caggtttaca acttggacag accggttgag      1260
ggcttacag tgctggacca tggtggcaca gtaggtgctc ttcccgctgc ccgcggggcc      1320
catgaccagc tgcgcatacc gaggcatgtt ggctcccgga gccgcccg               1368
```

```
<400> 6771
gaattccggc gagtgcgcgc tcctcctcgc ccgccgctag gtccatcccg gcccagccac        60
catgtccatc cacttcagct ccccggtatt cacctcgcgc tcagccgcct tctcgggccg       120
cggcgcccag gtgcgcctga gctccgctcg ccccggcggc cttggcagca gcagcctcta       180
cggcctcggc gcctcgcggc cgcgcgtggc cgtgcgctct gcctatgggg gcccggtggg       240
cgccggcatc cgcgaggtgc accattaacc agagcctgct ggccccgctg cggctggacg       300
ccgacccctc cctccaggcg ggtgcgccag gaggagagcg agcagatcaa gaccctcaac       360
aacaagtttg cctccttcat cgacaaggtg cggtttctgg agcagcagaa caagctgctg       420
gagaccaagt ggacgctgct gcaggagcag aagtcggcca agagcagccg cctcccagac       480
atctttgagg cccagattgc tggccttcgg ggtcagcttg aggcactgca ggtggatggg       540
ggccgcctgg aggcggagct gcggagcatg caggatgtgg tggaggactt caagaataag       600
tacgaagatg aaaattaaccg ccgcacagct gctgagaatg agtttgtggt gctgaagaag       660
gatgtggatg ctgcctacat gagcaaggtg gagctggagg ccaaggtgga tgccctgaat       720
gatgagatca acttcctcag gaccctcaat gagacggagt tgacagagct gcagtcccag       780
```

```
atctccgaca catctgtggt gctgtccatg gacaacagtc gctccctgga cctggacggc     840
atcatcgctg aggtcaaggc acagtatgag gagatggcca aatgcagccg ggctgaggct     900
gaagcctggt accagaccaa gtttgagacc ctccaggccc aggctgggaa gcatggggac     960
gacctccgga atacccggaa tgagatttca gagatgaacc gggccatcca gaggctgcag    1020
gctgagatcg acaacatcaa gaaccagcgt gccaagttgg aggccgccat tgccgaggct    1080
gaggagcgtg gggagctggc gctcaaggat gctcgtgcca agcaggagga gctggaagcc    1140
gccctgcagc gggccaagca ggatatggca cggcagctgc gtgagtacca ggaactcatg    1200
agcgtgaagc tggccctgga catcgagatc gccacctacc gcaagctgct ggagggcgag    1260
gagagccggt tggctggaga tggagtggga gccgtgaata tctctgtgat gaattccact    1320
ggtggcagta gcagtggcgg tggcattggg ctgaccctcg ggggaaccat gggcagcaat    1380
gccctgagct tctccagcag tgcgggtcct gggctcctga aggcttattc catccggacc    1440
gcatccgcca gtcgcaggag tgcccgcgac tgagccgcct cccaccactc cactcctcca    1500
gccaccaccc acaatcacaa gaagattccc acccctgcct cccatgcctg gtcccaagac    1560
agtgagacag tctggaaagt gatgtcagaa tagcttccaa taaagcagcc tcattctgag    1620
gcctgagtga tccaaaaaaa aaa                                             1643
```


        <210> 6772
        <211> 620
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (567)...(189)
        <223> similar to gi35184 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6772
```
ttttttttttt ttttggggag ttgcaacaat tcatctttat ttcttatttt cctctggaga      60
tgcagaattt ggtatatttc accccaggta tatttgggat agttggctcc tcgctgggtc     120
aggatggctg ggtgccttct cccctggcat ggttctcttc tctgcagggc gaggggcagg     180
gagctagtaa aacctcgcaa tgacagcccg caatggcaga cccaatggag cccaggatga     240
acttggtcaa tccggagaag tccagttgct cccagtgact gcagaagtag ccacaaaggc     300
tgccccgggg aaactccacc cccattgggc aatggccgcc gcggacatca tcttggctgc     360
tatggaggac gaggcgattc ccgcgcgcag ttgaagcccc atggcacttg agcaccatgg     420
gcacagcctg catgggccac caactcttca atcacaactt gtagcaatcc tggccagggg     480
caaaactacg gcagagccag aggccacccc tgaccacttt ggccacactg gtcacttgct     540
gatttagtga gagcagaggc ctccatgcct gctcgggtta attccgtggc ttagagagta     600
agagatcctc aacttcagct                                                 620
```


        <210> 6773
        <211> 801
        <212> DNA
        <213> Homo sapiens

        <220>

```
<221> misc_feature
<222> (1)...(802)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (434)...(626)
<223> similar to gi4927204 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




    <400> 6773
tggtgctttg aaacttggac acattaccca gcttgcacga ggggcgggcc cttaacaggc       60
accgctgcgg ggactggagt cggcggagaa aaccggggtc cccagcgctg gggcccgcgg      120
cgccatggct cacgtcggct cccgcaagcg ctcgaggagt cgcagccggt cccgggggacg     180
ggggtcggaa aagagaaaga agaagagcag gaaagacacc tcgaggaact gctcggcctc      240
cacatcccaa gagagaagca agcagaaggc ccggaggaga acaagatcca gctcctcctc      300
ctcttcttcc agttcttcta gctcctcttc ttcctcctcg gcctcctcct cttcctccag      360
tgatggccgg aagaagcggg ggaagtacaa ggacaagagg agnnnnnnnn nnnnnnnnnn      420
nnnnnnnctg aagaagaagg gcaaggagaa ggcggaagca cagcaggtgg aggctctgcc      480
gggcccctcg ctggaccagt ggcaccgatc agctggggag gaagaggatg gcccagtcct      540
gacggatgag cagaagtccc gaatccaggc catgaagccc atgaccaagg aggagtggga      600
tgcccggcag agcatcatcc gcaaggtggt ggaccctgag acggggcgca ccaggcttat      660
taagggagat ggcgaggtcc tagaggaaat cgtaaccaaa gaacgacaca gagagatcaa      720
caagcaagcc acccgagggg actgcctggc cttccagatg cgagctgggt tgcttccctg      780
agggcccccg ctggccaagg c                                                801
```

```
    <210> 6774
    <211> 2072
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (68)...(887)
    <223> similar to gi3559789 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters




    <400> 6774
tacatgaaat ctgcagtttc ataatttccg tgggtcgggc cgggcgggcc aggcgctggg       60
cacggtgatg gccaccactg gggccctggg caactactac gtggactcgt tcctgctggg      120
cgccgacgcc gcggatgagc tgagcgttgg ccgctatgcg ccggggaccc tgggccagcc      180
tccccggcag gcggcgacgc tggccgagca ccccgacttc agcccgtgca gcttccagtc      240
caaggcgacg gtgtttggcg cctcgaggaa cccagtgcac gcggcgggcg ccaacgctgt      300
acccgctgcg gtgtaccacc accatcacca ccacccctac gtgcaccccc aggcgcccgt      360
ggcggcggcg cgccggacg gcaggtacat gcgctcctgg ctggagccca cgcccggtg      420
cgctctcctt cgcgggcttg ccctccagcc ggccttatgg cattaaacct gaaccgctgt      480
cggccagaag gggtgactgt cccacgcttg acactcacac tttctccctg actgactatg      540
```

```
cttgtggttc tcctccagtt gatagagaaa aacaacccag cgaaggcgcc ttctctgaaa      600
acaatgctga gaatgagagc ggcggagaca agccccccat cgatcccaat aacccagcag      660
ccaactggct tcatgcgcgc tccactcgga aaaagcggtg cccctataca aaacaccaga      720
ccctggaact ggagaaagag tttctgttca acatgtacct caccagggac cgcaggtacg      780
aggtggctcg actgctcaac ctcaccgaga ggcaggtcaa gatctggttc cagaaccgca      840
ggatgaaaat gaagaaaatc aacaaagacc gagcaaaaga cgagtgatgc catttgggct      900
tatttagaaa aaagggtaag ctagagagaa aaagaaagaa ctgtccgtcc cccttccgcc      960
ttctcccttt tctcacccccc accctagcct ccaccatccc cgcacaaagc ggctctaaac     1020
ctcaggccac atcttttcca aggcaaaccc tgttcaggct ggctcgtagg cctgccgctt     1080
tgatggagga ggtattgtaa gctttccatt ttctataaga aaaaggaaaa gttgaggg99     1140
gggcattagt gctgatagct gtgtgtgtta gcttgtatat atattttaa aaatctacct     1200
gttcctgact taaaaaaaaa ggaaagaaac tacctttta taatgcacaa ctgttgatgg     1260
taggctgtat agttttagt ctgtgtagtt aatttaattt gcagtttgtg cggcagattg     1320
ctctgccaag atacttgaac actgtgtttt attgtggtaa ttatgttttg tgattcaaac     1380
ttctgtgtac tgggtgatgc acccattgtg attgtggaag atagaattca atttgaactc     1440
aggttgttta tgaggggaaa aaaacagttg catagagtat agctctgtag tggaatatgt     1500
cttctgtata actaggctgt taacctatga ttgtaaagta gctgtaagaa tttcccagtg     1560
aaataaaaaa aaatttaag tgttctcggg gatgcataga ttcatcattt tctccacctt     1620
aaaaatgcgg gcatttaagt ctgtccatta tctatatagt cctgtcttgt ctattgtata     1680
tataatctat atgattaaag aaaatatgca taatcagaca agcgtaatgc ataatcagac     1740
aagcttgaat attgtttttg caccagacga acagtgagga aattcggagc tatacatatg     1800
tgcagaaggt tactacctag ggtttatgct taattttaat cggaggaaat gaatgctgat     1860
tgtaacggag ttaattttat tgataataaa ttatacacta tgaaaccgcc attgggctac     1920
tgtagatttg tatccttgat gaatctgggg tttccatcag actgaactta cactgtatat     1980
tttgcaatag ttacctcaag gcctactgac caaattgttg tgttgagatg atatttaact     2040
ttttgccaaa taaaatatat tgattctttt ct                                   2072
```

    <210> 6775
    <211> 1160
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1)...(1161)
    <223> n = a,t,c or g

    <220>
    <221> misc_feature
    <222> (449)...(283)
    <223> similar to gi2294252 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

    <400> 6775
```
ggtcaccact ttagtccctg gccaccagca cacccccagga gggtgagtgg cctgaggtag       60
ttacggcact aaaactccc ttgctaccga tctggaactc aagccccaag acatcccctt      120
agatgatctg aatacgcatt cagggacaga tctaggcagt ttctaaacaa cacttagact      180
ggggtctaac gttgacaaat ccttctagaa tttgcctctt tgggactgaa gtctaagggg      240
ctgagaccaa gaagggagag cacaagacta actttggtct cttgaccttt tcttaccttg      300
caactgtcag tgcctccagc caaatgccta gcacagagct cagtggattt gattcttcca      360
```

```
ttcagatact catagcgatt gcacacttta ttctcaatca caagaagctg gggctttctt    420
gagaaggcca gccccaaagg tacctgtgtt taaaagatga aagaaatggt tgctgaaccc    480
aaaacatgtt taggaggaaa accagaagaa cagagcagtg gcactggacc tcctgtctgt    540
ccgtgaggct gcagaacaca aggcagctcc caatgccgct ggactctctg accttggaga    600
gtgtaaacat catatatgat tctgtgttcc tgagatctgg gtttaacgat ctgggctttg    .660
gcatggtgct ttacgatcgt tgttgcttgt gtactttttg cttttctttt gaaaggacgt    720
agacgaccct tacaatgtaa agagagtctg agaaatgcaa ttgctattct ttttatatac    780
ttttcagat tttttatatg cttctttact acttacatca taatgcacaa ttttatatac    840
tgattttttc aatcaatgta tatcatgagt ttttaaaata atgctacaat cttcataact    900
aatattttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn    960
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnttcagt   1020
ggtaccctgc aaaataatta aaatcctaac tcttannnnn nnnnnnnnnn nnnnnnnnnn   1080
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnaagaggg ggccccccttn   1140
nnnnnnnnnn catctctccc                                               1160
```

<210> 6776
<211> 2399
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2400)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (181)...(1900)
<223> similar to gi2088768 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6776
```
ggcacgaggc agctgccgcc gcctagcccg gggtctggac ctggggactc cccagaaggg     60
cccgaggggg aggctccgga gcgtcggcgg aaggcgcacg ggatgctgaa gctttactac    120
ggcctctcgg aagggaggc ggcgggacgc cccgcggggc ccgacccct ggacccgact    180
gatctgaacg gggcgcactt cgacccggaa gtttacctag acaagctgcg tagagagtgc    240
cctctggccc agttgatgga cagtgagacg gacatggtgc ggcagatccg ggctctagac    300
agcgacatgc agaccctggt ctatgagaac tacaacaagt tcatctcagc cacagacacc    360
atccggaaga tgaagaacga tttccggaag atggaggatg agatggaccg gctggccacc    420
aacatggcag tgatcaccga cttcagcgct cgcatcagcg ccacgctgca ggaccgccac    480
gagcgcatca ccaagctggc aggggtccac gcgctgctgc ggaagctgca gttcctcttt    540
gagctgccct cgcgcctcac caagtgcgtg gaactgggcg cctatgggca ggcggtgcgc    600
taccagggcc gcgcgcaggc cgtgctgcag cagtaccaac acctgccctc gttccgcgcc    660
atccaggacg actgccaggt catcacggcc cgcctggccc agcagctgcg gcagcgcttt    720
agggagggcg gctcaggcgc cccggagcag gcagagtgcg tggagctgct gctggccctg    780
ggcgagcctg cggaggagct gtgcgaggag ttcctggcgc acgcccgcgg ccggctggag    840
aaggagctga gaaacctgga ggccgagctg gggccctcac ctccggctcc cgacgtgtta    900
gagttcaccg accatggtag gcagtggctt cgtgggcggc ctctgccagg tggcggcggc    960
ctaccaggag ctgtttgcgg cccagggccc agcaggtgcc gagaagctgg cggccttcgc   1020
ccggcagctg ggcagccgct attttgcgct ggtggagcgg cggctggcgc aggagcaggg   1080
```

```
tggtggtgac aactcactgc tggtgcgggc gctggaccgc ttccaccggc gcttgcgggc   1140
tcccggggcc ctgctggccg ctgccgggct cgcagacgct gccacggaga tcgtggaacg   1200
agtggcccgc gagcgcctgg gccaccacct gcagggtctc cgggcggcct tcctgggctg   1260
cctgacagac gtccgccagg cgctggcagc acctcgcgtg gctgggaagg agggccctgg   1320
cctggccgag ttgctggcca atgtggccag ctccatcctg agccacatta aggcctctct   1380
ggcagcagtg caccttttca ccgccaaaga ggtgtccttc tccaacaagc cctacttccg   1440
gggtgagttc tgcagtcagg gtgtccgtga gggcctcatc gtgggcttcg tccactctat   1500
gtgccagacg gctcagagct tctgcgacag ccctggggag aagggggggtg ccacaccacc   1560
tgccctgctc ctgctgctct cccgcctctg cctggactac gagacggcca ccatctccta   1620
catcctcact ctcactgatg aacagtttct ggtgcaggat cagttcccag tgacgcccgt   1680
gagcacgctg tgtgcagagg ccagggaaac ggcgcggcgg ctgctgaccc actacgtgaa   1740
ggtgcagggc ctggtcatat cacagatgct gcgcaagagc gtggagactc gcgactggct   1800
cagcactctg gagccccgga atgtgcgggc cgtcatgaag cgggtggtgg aggataccac   1860
cgccatcgac gtgcaggtgc tgcccaggct ggccgggggta gccctgacgc aggctggggg   1920
tactgtccct tcaagagggg ctggggcagc agaggatcac tggcagtccc tgcctggagg   1980
aggggacatg tgtatctggg cttctcacgg ggccagttct gtagccaggg cgtccgtgag   2040
ggaaccccag gggaacaagt ctccaaggat gaataccaaa cgggctgggg agtgcctatg   2100
tccacggtct tgttccttct cagcccagga ttatgacatc ttcgcccta ttttacctgt   2160
ggagaagcag aggctcaggg ttacccagga agtcagggca gggttggtgc tggtgctgaa   2220
gattagacct cagaccaact cttgtatcct gcctttgccc cactccactg gttctataaa   2280
tagcgaccat gtacctacta aatagcgggc cccgcggtga ttaccctgtg atccttgtna   2340
tgcttgagta gctgacttag ggcatcctca gcaccgatgg gcttggtggt ttcccctga    2399
```

```
ttttttttt ttagcacttg ggaaccagct ttatttctga ttttttttt tttatcagag     60
tataaaaaag tgagtgcagc aaaacaagga agacgagaca ggcgtgcgtg ggccagggca    120
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5445

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5446

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5447

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5448

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ggttatggcc attttgtgtc ttttgaggtt gtgctgtggg ggtttgggtt tgagggaagg    2040
gagcagggtg gcggttgagg aacgcttcag ccttagctgc tacctttcgg cagcagtgaa    2100
atacaagctg cagcctcggc tgccagggct cccttttgac ttattgtcgc cactgcccct    2160
tggtgctgtg tggtcccagt ggaaggaggg gaagattttg gaaacctggt agccaccagt    2220
aaggtgattc tctgccctgt tggggcctaa atttgggggc ttttgggcaa cctctccgtg    2280
tactgcgtct gtccacactc gattgggccc caggtgtgta tgaggcgctc tggtaaggtg    2340
ctcaggccag ttgcaatgtc tgtcagtaac gaggcttttg atgtgttgag ctggaggtga    2400
gtggaccggg ggctgtgttt taagctgctt ccttggcatt tggcatcact gccttctggt    2460
tcccggggga gcatggatct tttgtcctca ctgctttcta atggggaggg ctgagggctc    2520
cctgtcccca cagcaggtat gttgggctct gccccagccc cacacttgct ttgaaaacca    2580
agtgtcagag ccccttcccc ttgtttttat tttactgtta taataattat taacttcctt    2640
gtaatagaaa taaagtttgt acttggagtt cagctc                               2676
```

<210> 6781
<211> 2174
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2086)...(630)
<223> similar to gi56332 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6781
```
tttttttttt ttcatgccaa tgaatttatt gaaacggagg tctgtacaca ggcaaacctg     60
tactgtggaa actaagacat caggagctct ctccactccc ctggccctcc agggtggggt    120
gaggagggag tagaccttgg gggcagagga caggaggggga gttacagctg taggaggggc    180
ggggccaggt tggacggtgc gaatcgacgt tttctttaag aaaaaaatta taacaatcta    240
tttacacccg ggggccaggg aagggaagag gagacgggct gggctggttc tatttacaag    300
ggacacacag aggggagggg gtctggagga ggtgaaaatc tgggggaggt ggaaagggcc    360
aaggggggtaa ggaagtcctc atcccccaa caccctgtc cttctcttcc cctcccccac    420
aaccagttta aaatcctcct taaaaagccc caccacaggg gtgaggctgg tgagggaggg    480
actggaggtg gggacaggga ctcatttacc tctgccctct agtctagggg cccagccagg    540
gcaggagctt gatgggctat ggcccccctt cccagccct cttgggctc ccagatggaa    600
gtggaagggt gcttggtggg gccctcagga ggagttagtg agggtaggtg tggcatcggt    660
cgactgccag tctgagctgg tcggagtctc agttaaagct tgtgaggacg gggtgaaggg    720
tggtagtgcc cgctggggaa cctccaagtg aaggagggat gagaatggcg ttgagagacg    780
gttggattgg agagttcacc agcactgaag ttgaagagag gggaagtgg gcggttgtta    840
ggcagctggg ttcccagaca tcgcagttca tcaaagaagc tgtgcgcaca ggcctctagt    900
ggggagagcc ttgaggatgg ggtgtactcc cagcaggcta gagcagagcg cgatggcctc    960
tggcggcgtt cgagatttga acacttttgt cccagggggtg agctttaatc tgagggaact   1020
tgaactccgt gtagttgggg ttcatctctc ggatttgttc ccgggttggt gttcccagca   1080
ccttgatgat ctccaccagc tggtccaccc cactgtcccc agggaagatg ggctggccca   1140
agaggagctc tgccagtaca cagccagctg accaaacatc gatggatgag gtgtaatcag   1200
tggctccaaa gatgagctct ggggcccggt agtagcgaga acagatgtag gagacattgg   1260
gctcccctcg gaccaactgc tttgcactgc caaaatcgca gagcttgagg acagcagtgt   1320
cagggtccac cagcaggttc tggggcttga tgtcgcggtg acacacgccc tgggagtgga   1380
tgtaggccaa gctgcggaag agctggtaca tgtacacctt gacatagagg ataggggatgg   1440
tcaacttggc cttggtgaag tggcgggcca cccggtacac tgtctcgggc acatattcca   1500
gcaccagatt taggtaaagc tcgtctttct tctcgccact ggagtagaaa aagtatctca   1560
gcctcacaat attgcagtgg tccagcttac gcatgatctg cagctctcgg ttcttgaacc   1620
tcttgtcctg gagaaccttc ttgatggcga ctagttccct ggtctctgcc agccgtgcct   1680
ggtacacgac cccaaatgag ccattgccaa tcactttgat gtccgtgtaa gccacttctt   1740
gggagcgctc tgggccttgg cctagagtgg ctacgactgt ggtcaccttc ccgctgtcac   1800
ggcccagctt caccccgggc ggcgggaagc tagtgcctgc gccggggcct ccgctgcctc   1860
ctccgccgct gccgccgggt ccacccccgg agctcgaggc cccgacgccc ccacccatgg   1920
ccccgacaga tgcctttccg ccgccggtgc cgcctgggcc ggaggccgag cctccggggc   1980
cgccgccgcc tcctccgcct ccgccgccgg gctccgcgaa cgagctagtc cgcgccctgc   2040
ccgagccccc agggccgcct cccgaaggcc cgccgccgct catggcgccg agcacaggcc   2100
caggctgcgg ggctcgggct gcccgggctg ccccagccgc cgccgcggcc gccgcctccc   2160
ccggagccca agcc                                                      2174
```

<210> 6782
<211> 1409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(952)
<223> similar to gi4885696 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

```
<400> 6782
gcgcccgccg ccatgtcggt gctgggcgag tacgagcgac actgcgattc catcaactcg      60
gactttggga gcgagtccgg gggttgcggg gactcgagtc cggggcctag cgccagtcag     120
gggccgcgag ccggcggcgg cgcggcggag caggagggaa ctgcactaca tccccatccg     180
cgtcctgggc cgcggcgcct tcggggaagc cacgctgtac cgccgcaccg aggatgactc     240
actggttgtg tggaaggaag tcgatttgac ccggctgtct gagaaggaac gtcgtgatgc     300
cttgaatgag atagttattc tggcactgct gcagcacgac aacattattg cctactacaa     360
tcacttcatg gacaatacca cgctgctgat tgagctggaa tattgtaatg gagggaacct     420
gtatgacaaa atccttcgtc agaaggacaa gttgtttgag gaagagatgg tggtgtggta     480
cctatttcag attgtttcag cagtgagctg catccataaa gctggaatcc ttcatagaga     540
tataaagaca ttaaatattt ttctgaccaa ggcaaacctg ataaaacttg gagattatgg     600
cctagcaaag aaacttaatt ctgagtattc catggctgag acgcttgtgg gaaccccata     660
ttacatgtct ccagagctct gtcaaggagt aaagtacaat ttcaagtctg atatctgggc     720
agttggctgc gtcatttttg aactgcttac cttaaagagg acgtttgatg ctacaaaccc     780
acttaacctg tgtgtgaaga tcgtgcaagg aattcgggcc atggaagttg actctagcca     840
gtactctttg gaattgatcc aaatggttca ttcgtgcctt gaccaggatc ctgagcagag     900
acctactgca gatgaacttc tagatcgccc tcttctcagg aaacgcagga gagagatgga     960
ggaaaaagtc actctgctta atgcacctac aaagagacca aggtcaagca ctgtgactga    1020
agcacccatt gctgtagtaa catcacgaac cagtgaagtc tatgtttggg gtggtggaaa    1080
atccaccccc cagaaactgg atgttatcaa gagtggctgt agtgcccggc aggtctgtgc    1140
agggaatacc cactttgctg tggtcacagt ggagaaggaa ctgtacactt gggtggtaag    1200
tgaacgctaa gcattttgga acagtgctgt aagcctaatt gtttactggg cccacgatgt    1260
ctaagcattt tattagttga acctatacta agggagtggc aacatggggt gatggaatgg    1320
aagctcttat aagagcaggg attttgtctg tttagttcac tgatgtatgc ccagggctgg    1380
tacatattag gtcacctata aatgttttt                                      1409
```

<210> 6783
<211> 765
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (117)...(658)
<223> similar to gi6013321 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6783

```
ccttcccaat ctgtctcccc agaagacaca ggaaacaatg cattgccttt gattgctggg      60
cagacctggg gttccaggcg ggcagcagct gcaggctgac cttgcagctt ggcggaatgg     120
actggcctca caacctgctg tttcttctta ccatttccat cttcctgggg ctgggccagc     180
ccaggagccc caaaagcaag aggaaggggc aagggcggcc tgggcccctg gcccctggcc     240
ctcaccaggt gccactggac ctggtgtcac ggatgaaacc gtatgcccgc atggaggagt     300
atgagaggaa catcgaggag atggtggccc agctgaggaa cagctcagag ctggcccaga     360
gaaagtgtga ggtcaacttg cagctgtgga tgtccaacaa gaggagcctg tctccctggg     420
gctacagcat caaccacgac cccagccgta tccccgtgga cctgccggag gcacggtgcc     480
tgtgtctggg ctgtgtgaac cccttcacca tgcaggagga ccgcagcatg gtgagcgtgc     540
cggtgttcag ccagggttcc tgtgcgccgc cgcctttgcc cgccaccgcc ccgcacaggg     600
ccttgccgcc agcgcgcagt catggagacc atcgctgtgg gctgcacctg catcttctga     660
atcacctggc ccagaagcca ggccagcagc ccgagaccat cctccttgca cctttgtgcc     720
aagaaaggcc tatgaaaagt aaacactgac ttttgaaaaa aaaaa                      765
```

<210> 6784
<211> 1165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1027)...(223)
<223> similar to gi4689124 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6784

```
tttttttttt ttagtttaaa aaatatttat tatagaaatg tacatttaat tagttttaag      60
gaatgtacct gaccacagtg ttaatatata tttcttcaaa tttgcaaact ttacaccttt     120
aagatatcta caaagatgat agtttatttta caagttttac aagaaatgat cacttcacaa     180
tactgttgac acagttacga ttgaatcttc ttctcacttt ttatttcact ctgtacttat     240
agaaagaaca gagagtatgg gtgaagttcc atcccagtgc caggaaagc ccgtagagca      300
gaatcagagg tgcaaatgga tacagaagaa ttactgtatt tttcaaaaat ggcaatgctg     360
gaaaagaaaa ggagtccaac actgtatccc aggaaagtta catagatata atagccaact     420
gcaaccaacc ataaggtatt tccaactaaa tatccaataa atgtgtctgt caggataaca     480
tggttgatga aaaaaagctg gataaaatgc aaaatgacca ggagtggata aaaagcattg     540
agatgcacat caaaagcata gccccattcc acatcatagt ctctgctctg tcgtttcact     600
aaatacttgt tagagatgaa ccacattaaa gttgctatca gaagaccaac gcctacacaa     660
tctatgagta caacccaaag gagaagcttt attgtctcaa agaatcccat gtccagcaca     720
aagccaaatc ctatagtgga cacacagagc cagatactta acaggaccaa gaaagcaggg     780
tcatctctgg cccactggtc cttcgtctgt tttcgataat gaaaatttct gtaaactctc     840
tgtggggatg tgaacaggta gagcatctgc caggcagcaa attcaaagtc catttgccga     900
aagcggaaaa gccttctcag atatttgtag cgtttcgctc cggctgtgtg tcttgccgca     960
tccctggaat tcaagactcc gttcccctgc actaaggaat tcactgaagt actcggtaac    1020
atcttcctgg agtcctgcta cagcctcgac ccacgtccga accagcccac cacctcctcc    1080
cagcagccga ccccagccgc caccgggcgg gcttcccttc cctcaacgga gccggccctt    1140
ggggcgcgcc gcgtcacggg aaccg                                          1165
```

<210> 6785
<211> 2103
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2104)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1967)...(1068)
<223> similar to gi3252826 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6785
```
ggccccataa aaaaaatttt accttgccag cccgcggaag ttaaacttgg tcctctaaaa      60
cgggccccct tttttttttt tttcaatgaa aacttttatt tactggtaaa atataaaaat     120
ccaggtctct taaatccaca caatctctcc aaatatttgg caagattgat tccaagtcca     180
tatgggtgga taacaagaac aaaggggtct ctgctcagag agacgtattg tcgttcagag     240
ttctgccctg cttccctcta aatgctcacc aacctggact cttctaaagt gggcagacaa     300
gccctattct aagcgtagga atagccccat ttgtgcgtga cactaagttc ctccaatggt     360
ccaaactgag cgtggatgac tatccaacat cacacacaaa tgcacatccc ctctctttac     420
aagacatgca gaatctcaag atatgtcaag atatgcagca agtttaatac ctgaaggtta     480
acataaatga caacaggaca cagatgcaat gctacagtca aatgtggttg gggatggaag     540
ggggcagagg gacactggat atcatcacag caaccagtga gtgagtcctc tggtgccctg     600
aggaggttgt gagccacttg actcgtgtca caaagaatgg agtaaactaa caactctgaa     660
agacaagagg gtggcagcat tgctgagatg agactcaagg caggggtctg cagctctgtc     720
acagagtgtt aatgctcaac gatgcctggg ctcaagagcg ttctggtcag cattttaaca     780
tcagaagaag ggcttcttca ggacacactc ccttctctta acatgaggtg aagaaaccca     840
tcccattctg aaaccaggtc ccataatacc ttggtctttt gatacacagc agcactacac     900
accactgtgc cccccagcca gcttcactct gtctgctaag cacccactct gcaaacagat     960
ctcagagtga acaaatccag aggaggtggg aggagccacc atggtgggat gtgagggaca    1020
ggagttggct ggaggagcag atgggtccca tgtcaggaac ctcctaggca tcatgaagat    1080
tgctatcact cagaagcacc tttttccccag gtttgaaggc tggcatccca aggtaggggc    1140
agctggcaca gcggaaggca tcgcccaggt agcagtttcc acaagctgac ttgggttggg    1200
agctcatctg ttcccttgac ttctcttttt ccagttcttc ggcaaggcca caggtgcagt    1260
tcttacaggc cttcctcttt ttcccttccc cacaagaagc agcccgcagg gaagctggat    1320
ctggcttctt caaatcttct ggatccagca gctcatctga gtcaatgaga tccatgctgt    1380
cgtcctccat atcgttggct gagagggtcc accagcttgg cagcagcagg gtccacagca    1440
ggtttcactg aaggagaaga cttcttggtg atagaaagct taagctgcct agaagaaccc    1500
acttcaaagt ttggtttttt gcctgtgatc tgaacaaaca gcaggttgtc actttcatga    1560
ccaaggtgtt ctcgaacaga ctgtacttcc tcaggggtta ggggctcccg ctgcagctct    1620
ttcacttcca caagaccaga aagagtcagg gctgaacaca gcttagatgc tgtcttcact    1680
ttgctattgt tatctacagc tgtctctact ggctccttca gaaaaagaca tccaccaggc    1740
cgaaggatcc gggcgatttc agccaaaatc tcagcactgt gcagagtggt gcttcctggg    1800
actaaacatt gcaacagctg cttgatgttt tccacagaca cgcggccctc attccggtt    1860
aacgcttgaa gcttatccac cagacctttc agagcctcca ctggggatga cttatcccag    1920
accactgcca caaactggcc agcagagatc ccaaaatctg ccattcttgc agtgcagtac    1980
```

```
tgacagacct aaaaactgct ggccaaaagg gaatcaagac tgncgcctgg gctcgctccc    2040
ggcttctctc cagccgtcga ctcncacgcc tcgcgctctc gcgagaggag ganggtccac    2100
gga                                                                  2103
```

```
        <400> 6786
agaggcgcga atgcgaacct ggcccgtgcg gaaagggcgc ggagagcccc ggcgcggagc      60
aggcggtaaa ctgaagataa caccaacttg gcagcgggag tttgtgtctt ctgtatgaaa     120
tctccctgcc tctgcacctg gttgagttgc tgtcattatt ttaggggacg gtattcagaa     180
ttcgagcgca ggagctccgc ttctccacct gctcccgggg agctattggg atccagagaa     240
tcacccgctg atggtttttg cccaggcctg aaacaaccag agagctacgg gaaaggaagg     300
gcttggcttg ccagaggaat tttccaagtg ctcaaacgcc aggcttacgg cgcctgtgat     360
ccgtccagga ggacaaagtg ggatttgaag atccactcca cctctgctca tggcgggcca     420
gggcctgccc ctgcacgtgg ccacactgct gactgggctg ctggaatgcc tgggctttgc     480
tggcgtcctc tttggctggc cttcactagt gtttgtcttc aagaatgaag attactttaa     540
ggatctgtgt ggaccagatg ctgggccgat tggcaatgcc acagggcagg ctgactgcaa     600
agcccaggat gagaggttct cactcatctt caccctgggg tccttcatga caacttcat      660
gacattcccc actggctaca tctttgaccg gttcaagacc accgtggcac gcctcatagc     720
catatttttc tacaccaccg ccacactcat catagccttc acctctgcag gctcagccgt     780
gctgctcttc ctggccatgc caatgctcac cattggggga atcctgtttc tcatcaccaa     840
cctgcagatt gggaacctat ttggccaaca ccgttcgacc atcatcactc tgtacaatgg     900
agcatttgac tcttcctcgg cagtcttcct tattattaag cttctttatg aaaaaggcat     960
cagcctcagg gcctccttca tcttcatctc tgtctgcagt acctggcatg tagcacgcac    1020
tttcctcctg atgccccggg ggcacatccc atacccactg cccccccaact acagctatgg    1080
cctgtgccct gggaatggca ccacaaagga agagaaggaa acagctgagc atgaaaacag    1140
ggagctacag tcaaaggagt cctttcagc gaaggaagag accccagggg cagggcagaa     1200
gcaggaactc cgctccttct ggagctacgc tttctctcgg cgctttgcct ggcacctggt    1260
gtggctgtct gtgatacagt tgtggcacta cctcttcatt ggcactctca actccttgct    1320
gaccaacatg gccggtgggg acatggcacg agtcagcacc tacacaaatg cctttgcctt    1380
cactcagttc ggagtgctgt gtgcccctg gaatggcctg ctcatggacc ggcttaaaca     1440
gaagtaccag aaggaagcaa gaaagacagg ttcctccact ttggcggtgg ccctctgctc    1500
gacggtgcct tcgctggccc tgacatccct gctgtgcctg ggcttcgccc tctgtgcctc    1560
agtccccatc ctccctctcc agtacctcac cttcatcctg caagtgatca gccgctcctt    1620
cctctatggg agcaacgcgg ccttcctcac ccttgctttc ccttcagagc actttggcaa    1680
gctctttggg ctggtgatgg ccttgtcggc tgtggtgtct ctgctccagt tccccatctt    1740
cacccctcatc aaaggctccc ttcagaatga cccattttac gtgaatgtga tgttcatgct    1800
tgccattctt ctgacattct tccaccccctt tctggtatat cgggaatgcc gtacttggaa    1860
agaaagtccc tctgcaattg catagttcag aagccctcac ttttcagccc cgaggatggt    1920
tttgttcatc ttccaccacc tttgaggacc tcgtgtccca aaagactttg cctatcccag    1980
caaaacacac acacacacac acacacacac acacacacaa aataaagaca cacaaggacg    2040
```

```
tctgcgcagc aagaaaagaa tctcagttgc caagcagatt gatatcacac agactcaaag    2100
caaaggcatg tggaacttct ttatttcaaa acagaagtgt ctccttgcac ttagccttgg    2160
cagacccttg actccagggg agatgacctg ggggaggaag tgtgtcaact atttctttag    2220
gcctgtttgg ctccgaagcc tatatgtgcc tggatcctct gccacgggtt aaattttcag    2280
gtgaagagtg aggttgtcat ggcctcagct atgcttcctg gctctccctc aagagtgcag    2340
ccttggctag agaactcaca gctctgggaa aaagaggagc agacagggtt ccctgggccc    2400
agtctcagcc cagccactga tgctggatga ccttggcctg accctggtct ggtctcagaa    2460
tcactttttcc catctgtaaa attgagatga attttggtgt tgaaagttct tcctggagca    2520
gatgtcctag aaggttttag gaatagtgac agagtcaggc caccccaagg gccatgggag    2580
ccagctgacc tgcttgaccg aaggatttct gacagactat ctttggggat gttttcaaga    2640
agggatataa gttatttact ttgggcattt aaaagaaaat ttctctcggg aataatttta    2700
tagaaaaata aagcttctgt gtctaaggca aaaaaaaaa                            2739




        <210> 6787
        <211> 3756
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (305)...(3756)
        <223> similar to gi5733814 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



        <400> 6787
cacaagcatg cacagtgtga tgtggttcag aggcagcttc tagacctgca ggagggagat     60
tgtattcaga ggaagagcat cattttggca acatctgaaa gtgaaaacgg aagccagaaa    120
cacttggcca gccctggggg atttttttct tctatgcctc tctggtggaa tgacatttgc    180
tgtgtaggca tctttcctct gactgtattt cttggccttg aagagtactg agtttaaaaa    240
gacagtatgt gacagtccat ggaaattgcc tcttctgtga aatctcgcca cctgctccga    300
agacatgttg ttgtctccca aattctcctt atccaccatt cacatacgac tgacggccaa    360
aggattgctt cgaaaccttc gacttccttc agggtttagg agaagcactg ttgttttcca    420
cacagttgaa aagagcaggc aaaagaatcc tcgaagctta tgtatccagc cacagacagc    480
tcccgatgcg ctgcccctg agaaaacact tgaattgacg caatataaaa caaaatgtga    540
aaaccaaagt ggatttatcc tgcagctcaa gcagcttctt gcctgtggta ataccaagtt    600
tgaggcattg acagttgtga ttcagcacct gctgtctgag cgggaggaag cactgaaaca    660
acacaaaacc ctatctcaag aacttgttaa cctccgggga gagctagtca ctgcttcaac    720
cacctgtgag aaattagaaa aagccaggaa tgagttacaa acagtgtatg aagcattcgt    780
ccagcagcac caggctgaaa aaacagaacg agagaatcgg cttaaagagt tttacaccag    840
ggagtatgaa aagcttcggg acacttacat tgaagaagca gagaagtaca aaatgcaatt    900
gcaagagcag tttgacaact taaatgctgc gcatgaaacc tctaagttgg aaattgaagc    960
tagccactca gagaaacttg aattgctaaa gaaggcctat gaagcctccc tttcagaaat    1020
taagaaaggc catgaaatag aaaagaaatc gcttgaagat ttactttctg agaagcagga    1080
atcgctagag aagcaaatca atgatctgaa gagtgaaaat gatgctttaa atgaaaaatt    1140
gaaatcagaa gaacaaaaaa gaagagcaag agaaaaagca aatttgaaaa atcctcagat    1200
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caagcacatg gcaatctcaa ggcagctttc cacggagcag gctgttctgc aagagtcgct    1440
ggagaaggag tcgaaagtca caagcgact ctctatggaa aacgaggagc ttctgtggaa    1500
```

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tcacctaagc ataaggggaa aaactctcag ggccctatta agatttataa cctttgtaat   1980
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gattttgttt aaaccaaatg tttcatgtag aatgcaaaat gttggcacgt caaaaatatg   3660
aatgtgtaga caactgtagt tgtgctcagt ttgtagtgat gggaagtgta ttttactctg   3720
atcaaataaa taatgctgga atactcaaaa aaaaaa                             3756
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<210> 6788
<211> 2128
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (219)...(2000)
<223> similar to gi396813 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

5456

<400> 6788
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aactgaggtc cagacagccg aagagtggta gtgtccagga cacacaactg ggccggcggc     180
ggcggctgcc ccgagggacg cggccctagg cggtggcgat ggggaccgcc cggatcgcac     240
ccggcctggc gctcctgctc tgctgccccg tgctcagctc cgcgtacgcg ctggtggatg     300
cagatgacgt catgactaaa gaggaacaga tctttctgct gcaccgtgct caggcccagt     360
gcgaaaaacg gctcaaggag gtcctgcaga ggccagccag cataatggaa tcagacaagg     420
gatggacatc tgcgtccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct     480
accctgagtc tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgcccct     540
gtctgccgga atgggaccac atcctgtgct ggccgctggg ggcaccaggt gaggtggtgg     600
ctgtgccctg tccggactac atttatgact tcaatcacaa aggccatgcc taccgacgct     660
gtgaccgcaa tggcagctgg gagctggtgc ctgggcacaa caggacgtgg gccaactaca     720
gcgagtgtgt caaatttctc accaatgaga ctcgtgaacg ggaggtgttt gaccgcctgg     780
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tcctggccta ctttaggcgg ctgcactgca cgcgcaacta catccacatg cacctgttcc     900
tgtccttcat gctgcgcgcc gtgagcatct tcgtcaagga cgctgtgctc tactctggcg     960
ccacgcttga tgaggctgag cgcctcaccg aggaggagct gcgcgccatc gcccaggcgc    1020
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tcctttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca    1140
gcctcatctt catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg    1200
gctggggtct gcccgctgtc ttcgtggctg tgtgggtcag tgtcagagct accctggcca    1260
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aatccacgct ggtgctcatg cccctctttg gcgtccacta cattgtcttc atggccacac    1500
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ctgagatcaa gaaatcttgg agccgctgga cactggcact ggacttcaag cgaaaggcac    1680
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ccaacggcca ccctcagctg cctgggccat gccaagccag ggaccccagc cctggagacc    1860
ctcgagacca caccacctgc catggctgct cccaaggacg atgggttcct caacggctcc    1920
tgctcaggcc tggacgagga ggcctctggg cctgagcggc cacctgccct gctacaggaa    1980
gagtgggaga cagtcatgtg accaggcgct gggggctgga cctgctgaca tagtggatgg    2040
acagatggac caaaagatgg gtggttgaat gatttcccac tcagggctgg ggccaagagg    2100
aaaaacaggg aaaaaaagaa aaaaaaaa                                       2128
```

<210> 6789
<211> 2475
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2476)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (71)...(1416)
<223> similar to gi537292 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6789

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gcaccactgg atattgggag tgtgtggcat gcatcctcat catcaggaaa ctctaaaaaa     120
gaaccgagtg gtgctagcca aacagctgtt gttgagcgaa ttgttagaac atcttctgga     180
gaaggacatc atcaccttgg aaatgaggga gctcatccag gccaaagtgg gcagtttcag     240
ccagaatgtg gaactcctca acttgctgcc taagaggggt ccccaagctt ttgatgcctt     300
ctgtgaagca ctgagggaga ccaagcaagg ccacctggag gatatgttgc tcaccaccct     360
ttctgggctt cagcatgtac tcccaccgtt gagctgtgac tacgacttga gtctcccttt     420
tccggtgtgt gagtcctgtc ccctttacaa gaagctccgc ctgtcgacag atactgtgga     480
acactcccta gacaataaag atggtcctgt ctgccttcag gtgaagcctt gcactcctga     540
attttatcaa acacacttcc agctggcata taggttgcag tctcggcctc gtggcctagc     600
actggtgttg agcaatgtgc acttcactgg agagaaagaa ctggaatttc gctctggagg     660
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tctatgtgac cagactgcac aggaaatgca agagaaactg cagaattttg cacagttacc     780
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catctatggt gtggatggga aactgctcca gctccaagag gtttttcagc tctttgacaa     900
cgccaactgc ccaagcctac agaacaaacc aaaaatgttc ttcatccagg cctgccgtgg     960
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ggtgcgagga gagtgatgcc ggtaaagaaa agttgccgaa gatgagactg cccacgcgct    1140
cagacatgat atgcggctat gcctgcctca aagggactgc cgccatgcgg aacaccaaac    1200
gaggttcctg gtacatcgag gctcttgctc aagtgttttc tgagcgggct tgtgatatgc    1260
acgtggccga catgctggtt aaggtgaacg cacttatcaa ggatcgggaa ggttatgctc    1320
ctggcacaga attccaccgg tgcaaggaga tgtctgaata ctgcagcact ctgtgccgcc    1380
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```

<210> 6790
<211> 5276
<212> DNA
<213> Homo sapiens

<400> 6790
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cctttccctg gggtctcaga gggcccccgt ccttcccttc ttggtgtcac tgtggcccct   180
cactgctctt ttcctattca aacctgagtc ccaccaggcc cagggcttca cctgctgagc   240
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gttatagacg ctgcaaaggc caagagaaca tctgagagtg gcagctggtg acctggccag   360
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5459

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<210> 6791
<211> 3812
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3590)...(878)
<223> similar to gi178052 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

5460

<400> 6791

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ctccccccgg tgtttaaccg ccgcccccgg attttatttt tggggcccca taaaaaaaat     60
aatacctttc cagcccccgg tcgtaaaatt tgtttctttta aaaagggccc cccctttttt    120
ttttttttgt cataggagtg tggttttttt aataccatct gtgccaagca atatcaaagt    180
tgtccatact ctccaagttt gtcctatttt taatagacaa tattaaaaat tttttaagtg    240
tgtgctgata aagagactag tcacacctct gaggggattt aaaaatgaga agccacataa    300
attctcttcc ttaaaaaaca gccatttcaa aagattttct ttaatatcat aaaatatttt    360
catggacaag tgagctagca aacacacatg caccaatgtg ccttttgaca agagtacccc    420
ctaccccgac tcccacacca aaatggacat gagattggag aaatgaatac agcagatgga    480
acagatagaa gaaaaaaaaa tcagtaaaaa ggatggaata taactttgtg cttggttatt    540
ttcctatgtc gcaacaaaac aagacatttc ggtgcaaata gttaatcttt cctctttttt    600
tccatttgtc tggtggagaa aaaatacttt ttctataata aaatatcgta gttttttggt    660
ttttaaccgt aactttttttt ttctttttttg gcagaaaata attttgtaaa ctggtcactt    720
cgcgggcagg gagggatcga tgccacgctg ggccccagct cacccggggt ggaggctggg    780
atgctgaaac cgaacccagg caggagatgg gccgacggcg gaggtgcaag gcagggcacg    840
gcgcacaaga cgaggggcgg ccgggcgggg tggattagag gtcactctcg ccgtacagcg    900
ccgtggagaa ggacatgtag tccagagcac ctggcacgga gtcggggccg gtgtaggggg    960
ccatccgcgc gatgcagtac tcagcctggt cgggtggcag ctcgcggcgc agctcgtcca   1020
tggtaatgta gttcttgtcc ccagccagga tcttgaagga agccatgact tggtctgctg   1080
tatctgtgtc ggctgtctcg cgggacatga agtcaatgaa ggcctggaat gtcactaccc   1140
ccaggcggtt ggggtccaca atgctcatga tgcgggcaaa ttctgcttct ccctgggggt   1200
cgttgccaat atcataaccc aagctgatga ggcaggcttt gaactcctcg ggacccagtg   1260
tgccggagtg atcccggtca aagtggttga aggaggcccg gaactcattc atctgctcct   1320
ggctgatgcc cttggcatcc cgggtcagga tctggttctc tacctcattg atggtcctgg   1380
cgatggtggt gagcagctgc tcccagccca cacggatgtg ctccatggtg tagttggtgt   1440
gcttgttgtc gaagatgagc gcctcctgga tgagctggtg gtcgccctcc agctgatcaa   1500
tctttggctt gtagttgacg atgctcttct catactgccg caggtggctg agctggtcct   1560
ccagggtccc atgcatctca atggagatcc ctcccgatct cctccatctt tggtctggat   1620
ccagggcccg aatgacattg gcctgggctc caaactgctt gcggtagcct ctcattgtgc   1680
tgctgtcggg catgctcctc cgtcagagct tggtccctcc gaggcaccag ctgccgcacg   1740
tggtcccatt tgccattgat ctcctgaggc gtgatggttg tgtaggggtt ggtgcccgcc   1800
atattgacgt ggtaggtctg gacaatcttg gacacctcat gtggatgcc caggatggcc    1860
aggcgctcct tgtcggcatc agggagggtg gccttgaact gctcatgggc tgtggtcagt   1920
ccctggattc tcctcaatgg tgtgcacaat gaaggtgtcc tgcaggtcct ccatggcccc   1980
ctccatccag ttgttgaagg gtgcagcccg cttggcatac tccaagtaca gctggtcaat   2040
ggtctccagc agtttctcgg tcccgctcca gagcttccct tcgcttctga gttagggccc   2100
ccagattgtc ccaactggta acagatcttt tggcaaacgg gcgttgaaca ctgggtgagt   2160
cataatagtc caagttcatt tgagctcctt gtgcgatggc ggcaatctgc ttccacacgg   2220
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gatctcccga gaggtggcg gtctcatagt ccttctgtcg cagcatggcc tctttgccgt   2340
cagtccaggc ctcgtggatg gaggcccttc tgccggaaaa cttctctgcc caaggtggtc   2400
caaatcgctc caagcttccg tatctcattc aagcaaacca ctccctcaat agcccttctc   2460
cacatgctcc caggcaagcc cccaggcatt gttgatgtcc gagaccatcc tgccctcaga   2520
gggcatgaag gcaggccggt tgctgagccg cagcttggtc tgcagcgtgt tgaagttgat   2580
ctccagctgg cacttctcct gcaccttggg cggcttgtgc aggcgccggt agtcccggaa   2640
gtcctccagc ttctgttgca tggcatgcat ggtgttctcg gcacccggt tctccagcca   2700
cgggattgtg cggcggatcc actccaacag atcactggcc agcttctcgt agtcttccat   2760
aagctgctcg ttctcctggt tgacggccaa caccttgcag atgcgattgg ctgctgtctc   2820
cgccttctgg gctccagaga aggcgtggta gaagctagac acgtaagtca tgatggcttt   2880
ctcatccggt cgggcagttc caacgatgtc ttcggcatcc agcatcttgg ggatgtccag   2940
gtacttctct gccacgtcaa aagccatatt cagatttgtg agtggatcat ccttccgcag   3000
cttcccgtag tcaatcagct cgggccggtg tcggtggatc aaagcacaga agccgaggcc   3060
atccttccag cttatgtgga agttctggat gttgacattt ttgtaagggg ctgtctttct   3120
ctgacaccac aggagcagcc cttccttggc tgaagtctct tccacggaga tgtcctggat   3180
```

```
ggcaaagcgc aggatgatgg tccagatcat gcccagggtc atcttcacat tcccatccac      3240
gatttcttcg gctccgatgg acaccagttt gacgcctttg ctggctatga aatccagggc      3300
cttgttgacg ttggagatct tgtgcactct catcttgcct cgctctggct tggccaagcg      3360
ttcacctgag atgacctcca gcagcagcat gagcttcagg ccatcccgga agtcctcttc      3420
gatgttctcg atctgtgtcc ccgccttccg gaggtgggag ttacaccatg ccgtgaatgt      3480
ctttctctgc tgcttctccc aggccgggtc caggagcagg tcccggtccc agtcctcttc      3540
tggctgcatg taatcgttgg tttgctgaga atcataatgg tccatgatgg tgcgcgcgtg      3600
ctagggtctg gatttcttcc tccaccttct ctctgagcaa cggctgctgc cctggcgtgg      3660
ggagggagta gggctgggct gggctgggct ggcggggccg ggctcgctcc cctgcgcccg      3720
gttccgccgc ggcgctgctg gcgaaggctg ctactggcgg cgacagcggc ggctgggctc      3780
gcggactgcc tgcctctggg cgggctcgtg cc                                    3812
```


          <210> 6792
          <211> 1357
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (1318)...(131)
          <223> similar to gi1002507 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

          <400> 6792
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ttttttttcca cattggaggc acaagtttat tgagcacccg gatatggaag atggcaccgg      60
gcacagagcc gtgggactgg cctgcaggcc ccgcacccct caccgtgtgc ttgtccttgg      120
gggtgcctca caaagaacag caccttggct tccatcggct gcttgagaga ggtagaaggt      180
ggcagtcccg ctgtagtgct ccctggatgt gccgcatggc gttgggggag caagcggagg      240
cctccagcag tgtcaccgtg cagccaccga agccaccgcc cgtcatgcgg ctgccataaa      300
ccccaggcac agcaagcgca gcctccacca gctggtccag ctctgggcag ctcacctcat      360
agtcgtctct gagtgagcgg tggctctcac accatgaggc ggccaaaggc tctgtagtcg      420
ccacgtctca gggcggccgc tgcctgggcc gtgcgccgaa tctcccccac cacgtgccgg      480
gcccgccgga agccctcttt gctcaccagg tccctggcag cctctagctc ttccagttgt      540
acctcccgga ggctttcctt gcccagcgcc cgggccactt cttcacattg cgccgccgc      600
acagggtact cgctggaggc cagggagtgg cggacattag agttggtgat gagcacggcc      660
agcttggggt ccgagagtgg caccaggctg gtctccaagg acctgcagtc aatgagcagc      720
gcgtggcctt tctgtcccat aagtgagatg aactggtcca tgatgccaca gggcatccct      780
gcgaagctgt gctcggcctg ctgacacacc tgggcgcggg cagctattgt gcccgagtct      840
ggacagagct gctggaggaa ggtgtacgtg gccacttcca aggatgctga gctggacagg      900
ccacccccca ggggcactga gctgaccacc actgcactga gccaggag ggggcagct       960
gggtagtact gaatcactcc cttgacatag ttggcccacc gaggagtccc aggctccagc     1020
gagcgctggg ctgtgggcag tggaaactgc agccgctggg gctcatcggc accctcagag     1080
gtggtgagga gagacaccag cccatccttg cggggctgc ccaccagcac cgtcatgagc      1140
tccagagcca taggcagcac caggccctgg ttgtagtccg tgtgttcccc gatgaggttg     1200
acgcggcccg cgctgacac ggccagctcg ggctcggccc cgaactcctc ccggaaggct      1260
cgccgggcct cggccagcag ctccgcgacc tggggctgtc tcaaagcagc catgacgcgc     1320
gcctgcagct ctgcacagct gctccgcaca gccccgt                             1357
```


                                5462
```

<210> 6793
<211> 855
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (54)...(780)
<223> similar to gi1749490 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6793
gggtcgaccc acgcgtccga gtaggcagag agcggacctg gcggccgggc agcatggcgg      60
ggctggagct cttgtcggac cagggctacc gggtggacgg gcggcgcgcc ggggagctgc     120
gcaagatcca ggcgcggatg ggcgtgttcg cgcaggctga cggctcggcc tacattgagc     180
agggcaacac caaggcactg gctgtggtct acggcccgca cgagatccgg ggctcccggg     240
ctcgagccct gccggacagg gccctagtga actgtcaata tagttcagcg accttcagca     300
caggtgagcg caagcgacgg ccacatgggg accgtaagtc ctgtgagatg ggcctgcagc     360
tccgccagac tttcgaagca gccatcctca cacagctgca cccacgctcc cagattgata     420
tctatgtgca ggtgctacag gcagatggtg ggacctatgc agcttgtgtg aatgcagcca     480
cgctggcagt gctggatgcc gggataccca tgagagactt tgtgtgtgcg tgctcagctg     540
gctgtcgtgg acggcacagc cctggcggac ctcagccatg tggaggaagc agctggtggc     600
ccccagctgg gccctggccc tgctgccaag ccttcaggac agattgcgct gcttgagatg     660
gatgcccgg ctgcacgagg accacctgga gcgggtgttg gaggctgctg cccaaggctg     720
cccgagatgt gcacaccctc ttagatcgag tggtccggca gcatgtgcgt gaggcctcta     780
tcttgctggg ggactgacca cccagccacc catgtccaga ataaaaccct cctctgcccg     840
caaataaaaa aaaaa                                                     855


<210> 6794
<211> 1125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (14)...(870)
<223> similar to gi4929625 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6794
gcacgaggtc gtcatggagg cggtattgac cgaagagctt gatgaggaag agcagctgct      60
gagaaggcat cgcaaagaga agaaggagtt gcaagccaaa attcagggca tgaagaatgc     120
tgttcccaag aatgacaaga agaggaggaa gcaactcacc gaagatgtgg ccaagttgga     180
aaaagaaatg gaacagaaac atagagagga actgggagca attgaagctg actactaagg     240
agaataagat agattctgtt gctgttaaca tttcaaactt ggtgcttgag aatcagccac     300

5463

```
ctcggatatc aaaagcacaa aagagacggg aaaagaaagc tgcattggaa aaggagcgag      360
aagaacggat agctgaagct gaaattgaaa acttaacagg agccagacat atggaaagtg      420
agaaacttgc tcaaatattg gcagctagac agttagaaat taaacagatt ccatctgatg      480
gccactgtat gtataaagcc attgaagatc aactgaaaga aaaggattgt gctctgactg      540
tggttgcctt gagaagtcag accgctgagt atatgcaaag ccatgtggaa gactttctgc      600
cattttaac aaaccctaat acaggagata tgtatactcc agaagaattt cagaagtact       660
gtgaagatat tgtaaacaca gctgcatggg gaggtcagct tgagctaaga gctctgtctc      720
acattttaca aacaccaata gagataatac aggcagattc tcctcccatt atagttggtg      780
aagaatattc aaaaaaacca ctaatacttg tatatatgag acatgcatat ggcttaggag      840
aacattataa ttcggttaca cgactgagtt ggtgcgctag taattcccag gatcatgact      900
gagagattgt taataaaagc attgagtggg ggtaaaaata cgaagatcat tactttgaat      960
gggaagaaga tgacaaagat gccctcagca ttaggaaaac tgcctggcct gaagactcta     1020
gtccttcaga ataacctaat ccccaaagtg tgtccagagt tatgcaactt gacccaggac     1080
tggaagataa gcaagaatct gaagctggtg cctctccaag tatta                     1125
```


<210> 6795
<211> 2250
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2112)...(125)
<223> similar to gi3941326 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6795
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tttttttttt ttgacgggaa ttaaataact tttgactttta tttcactaga gataaaacca      60
gcagcatcac agcttgagcc ccttacccac cccccttgtcc tccccacccc ccactcttct     120
gcctaatgtc ggtaatgggg gcttcgggat cgggaccttg agcgccttcg agaagagctg      180
tattctcgac tgtatcgggg ggagggtgag cggctctgcc ggctgtactg gcgttcccac      240
tcttctctct ccttctctcg gcgttcccgc tccttcatgc ggatcttgcg ggccatggct      300
cgaagctcgt cttcccgctc ctgccgctca tgctcctgct ggatcatctt ttcttgtgcc      360
gccttcttat ccgccttgaa ctgcctgttc agcgccttct gcatcctcag tttctccttc      420
tcctgaggcg tcagcttggg tgactttggc agctcctgtc tctttaccag ccggcaggtt      480
cggtcttttt cagcttctcg cccacagcag gggacgcggc cggcctggtc agcttctctc      540
ttgcgggtga tggcgagggg ctctggctgc ggctgcggct gcggctgcgg ctctggctgg      600
ggctggggct atggctgcgg ctgcgagtca ggctgcgact gcgggacggg ctgagggacc      660
agctgctgcg gctgcggcta ctgctgtggt gcctgaggcc ccggccgccc cgcctgtagc      720
ggtcccctga gtgggagcgg ctcctgcttc tgcgccgggg cccgtaacca ccacgccggg      780
cgggcgagcg ggagtaccgg tgtccgtctc gggagccccc acctgagtgc cgccggccac      840
ggctacggga ccgggaatag cgccgggagc gggagcggga gcgggaccag gagcgggacc      900
gggagcgggc gtggcggccg gaacggtagt agcccccacc acggcgagag cgggagctgg      960
agcgagagct ggagcgggag ctggaggtcc tcgaggcaga agaggaggag gaggaggagg     1020
aggagcggcg gcgggcgctg gcattacgtc ccggggcggg gccgccaggc tggggaggtg     1080
cggggggctt ccctgtggtg actcctgatg ctgctgcggc agcagcggct gcggctgcct     1140
cctcatcgct gcccccaaaa ctggtgatga acgtgatctt ctcctcgcgg cccgggggtcg     1200
gggagcggga gcgggagcgg gactctgagc tggactccga gggtgaccgc ttatagggggt     1260
cataggtggg gctgtctcgg cgggcatagc tgggtgggct gatcttgcga ccccctcagcc     1320
gcttctcccg aaactctctc cgctggcgtc gagagcggcg tcccgagtac atggccttct     1380
```


                                       5464
```

```
cctcctcaag agccttggca tgcttgatgg cctctgcctc ctccttgtct ttccggagca   1440
tcctgacgaa gtcaccgtcg gccatgccat aagtcgtggc ctgtttgttg agatctgcca   1500
cctgctcctg gttcaattca tccacgtcca cctccacgtc gatgtcgggg atgacctcat   1560
cttcgtccga gttgctctcc tcctcggccg ctgactcctc ctcctctggc ttttctgccg   1620
ccttctctac ctcggccacc gtgctgtcct cgtaggtata accgatggaa gccttcttct   1680
ctgccagctt cttcttctca tcttcgctgg gtctctggag gcctccgtac aactcatcaa   1740
tgtagatctg gtacaggcac tgctcctttg agatgccggc aaagtcgttc tgcaccaggc   1800
ctctgtagcg ctcgtagtta cacttccgtt cgtccgactc ctgttctggg gagatggtgg   1860
tgagcagagg gggggtgtag tcggggatgt ggtccaggtg ggcacggaca tcgaatcggt   1920
caatcatgtt gttggtgtcc ccctgccagg gcatcatatt aacagggctc tcagcggcca   1980
gggcgactgc agaatccagg tgcaccttgc aagctcggcc atgtacctgc aggaactggg   2040
ctgggtcctt cttgatcttt tcataatact cccgtcttcg ctccgccctc ttcttgtagt   2100
cgaccatcat gcctcgaagc ttccgctcat gcttccgagc ctcgtgccac attgtggtga   2160
ggccaagcct ggggcctcaa ccggctggtc gccgcctccc accgctgcgc tcgcgcgcgg   2220
cccgcaccgg aagcggaaat gaaaggccgc                                    2250
```

        <210> 6796
        <211> 3097
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3021)...(353)
        <223> similar to gi987948 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6796
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tttttaaact caaaaactaa aagggtttac tatttcaaca tattacttcc tccagaactc     60
tcataacatg tacataaata agaatgtttc tcatttctta atttattaac aatgtataca    120
tttgaaaaaa tatatacaat atttcaaaac aagcccttca agactatatt taagcaatga    180
catccaagga agcagaactc aggtaccatg taatatttgg aaaatatggt aacttgaaga    240
ttaagatttc tcttccttgc tggttactct gaagtctcca atatacaaag gttgctccta    300
acgtggtttt cttattgagc caagcatctt gatgggtcaa tcccagtttc attttctcca    360
gtactgggca aacttgtgaa tctgttccac cactgcagca aaaagagcat ggacactctc    420
atcaatcaga ctctgcatgt aatgcacagc ctcttcatcc gacaggtcta agcggaattt    480
atcctgaacc tttttcacag ttttatctgg ttcaagtgca atatctggaa tgtttgcatc    540
aaccatcaag gaaaacaagt tcaaaatcag attagaatac cttcgcaggt ggaggaaagc    600
cgtgtaacac tgtttacgga actcttggta ctgctcactc tgtgtgcccc ccattccttc    660
taccatttct ttattcagct tcattggtgg aggaagaggc tttggatccc gacccaaaat    720
atatccaaag tctatgtgga agagtttgcc tgtttttgtt agcaaaaggt tatccaggtg    780
cctgtctcca actccaagta tataggtgat cacgcaatat ccagcacagc ttttaacgta    840
agtgtccatg acctcagcac taatcccatt tggcccattc tcacttggtg catattttct    900
aaaaaagttc tgaatgcttc cctctgtatc aagaacttca gccacaggaa ctgactggat    960
aaactgcatg aagccatgtt ttgtactggt ggctaacacc ttataaggtg tcaatttcaa   1020
gtccagattt tctttccgta acagcttgtc catgagtgaa atgatttgaa gaataagttg   1080
atcttgacgt aaatcatctc catgcttaaa tataactgga tatttgcctc catcttccgt   1140
cttaaaaaac aactgtgcag gcataagggc acttttaaac agtgtagctg tttccggaat   1200
tattcctcta attttcactt ggggttctaa aggcaacggg ataagttcca catctgacaa   1260
attcatcttt tcattatctc caagcaatgc ctgtagtctc tcattctttt tcttacgatt   1320
```

```
tccactttcg cgttgtactg ccttcattag atgcaccaac cgatctacaa atgtctgttg    1380
tgcagccagc aaagaacgca taactctgac agacttatca cccttcaaca atgcttggct    1440
gaatcttctc attacgttca agtacatctc atgggtcttt ggatctctct gctgagtatc    1500
ttgatcttca cattccacta tcacatacca gtataaataa ttagccagtg ttgagttttt    1560
ggaggctctc gatatcaaga aggtacagag atcttgttcc agattttcgc catctggaac    1620
ttcttttgtt tttgatgcca ggaggaggtg aagagactga agggaagggg gcctggttat    1680
aatttgggag ctatctattt ctgcagaatt tattccagaa tttgacacat tttctgacac    1740
tgaactctga ctatccttct tggtaggttc caatccattc tttatatcat caaaattttc    1800
atatttgaga gcctggacca attgtaatag gtacatcaac aaatcctcat catcggcctg    1860
tcgcaaccgg gcaacagcat aacgcctcac agttgggttg gtgtaatgag aggataacag    1920
ctccaaggag tcctctacat ccatcggctt ccattttccc agaagtgcca aggcctgttt    1980
ggccccctga ggtagatccc aaataacaga tgtcaggatt ttggtcaagg ctttatcttg    2040
attcgtaaga taatatctaa actcccaaac aagatcttgt tcttcatatg tgggtggctt    2100
ggatggagga taactcacaa tatttttttaa ctgatctctc ggggaaggat agggtttcag    2160
atcgtggtca gaaggtccac ttcttaaact ccggggaagg ttgtggtgtt tgctctcaac    2220
taaattctcc agggacatct gggggtcagg aactttcact aattcaaaac ttgttaaaat    2280
tggagatgat tcatcaccgt cctttcata ataaacaata ccatattcct tatcatcaca    2340
cttgacacat cgaaatccac ccatcaggta catgaaatta gaacttcgtt tcacactctc    2400
atttatcatt tctatttctc taaatgtcaa tctatccagc caatctactt tcaccatgtg    2460
tccttgtcga tgagctttgg tgagcttggc aagacggctc atctgatctt ctgagagagt    2520
gctacttgtt ctgccaggag tttttgtggg tttctgatcc atctggcttc tacaattagg    2580
ccagactttc aagtcatgca tcccttggcg aaacatgccg tattttccaa agagcgaaac    2640
cgttgttcct cctacaggca ctgcttttcc gggaccatac acatcccata tggtgagggc    2700
cacttgggca ttcctgggca ggtcagggta ttttactggt agtttcagcc attcattcca    2760
gttccatctt gtactaaatg ctttgtagga tgttctcact ggcaaggcca aaggcttccc    2820
ttctgcaaaa acttgacaag taacataaag atcagagcat gtctcttgat atagtcctga    2880
gaacttcaac attgggtctt ccaggacagc tttataactc ttttgttctc tcttcccttc    2940
caagcttcct atcttaagct ggacgttgat atccaggtca caactataga tgtagtgaaa    3000
cttctctgct tcccccatcg caccgtctgc aaaggtacca cctacagcgg gaacttaggt    3060
acaggaaaaa caacataaat gaaccagctg agcccca                            3097
```

<210> 6797
<211> 4064
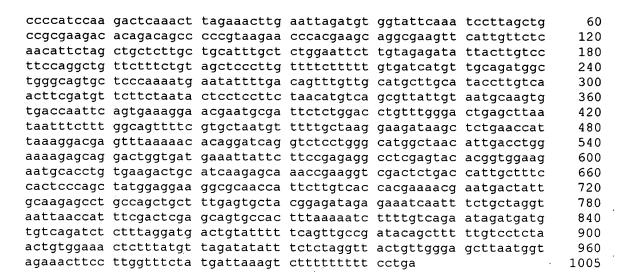<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (346)...(3698)
<223> similar to gi3688350 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6797
```
agtaccgctc gacccacgcg tgcgatagcc cttgctattt gcaagctcat tcatataact     60
attgagcctc tctaccgaag agttggagtt cctaaaggtg ctaaaggctc acctgttaat    120
gctttgcaaa acaagagagc accaaaacaa gctgagagct ttgaagattt gaggagagac    180
gtgttcaata tgttctgtta ccttggtcct cacctttctc acgatcccat tttatttgca    240
aaagtggtgc gcataggcaa gtcatttatg aaggagtttc agtctgatgg aagcaaacaa    300
gaagataaag aaaaaacgga agttatcctt agctgtttgc ttagcattac tgaccaggta    360
ctacttccat ctctttcttt gatggactgc aatgcttgta tgtctgagga actatgggga    420
```

5466

```
atgtttaaaa catttccata tcagcataga tatcgtctgt atggccagtg gaagaatgaa      480
acttataaca gtcacccact tttagtaaaa gttaaagctc aaacaataga cagagccaaa      540
tatatcatga agcgcctaac caaggaaaat gtgaagcctt ctggaagaca aattgggaag      600
ttgagccaca gcaatccaac cattttgttt gattatgtat gttttgagat cttgtcacaa      660
atacagaagt atgataactt aataacacct gtagtagatt cattgaaata cctcacttca      720
ctgaattatg atgtcttggc ctgtatcctt tcaaattgta tcattgaagc tttagctaat      780
ccagaaaagg aaagaatgaa acatgatgac acaaccatct caagctggct tcagagtctg      840
gctagtttct gtggtgcagt ttttcgtaaa tatccaattg atcttgctgg tcttcttcag      900
tatgttgcca atcagctaaa ggcgggcaaa agttttgacc tgcttatatt gaaagaagtg      960
gtacaaaaaa tggcaggaat agaaattaca gaggaaatga caatggagca actagaggct     1020
atgactggtg gagagcagct aaaagctgag ggtggttatt ttggtcagat cagaaacact     1080
aaaaaatcct ctcagagatt aaaggatgct ctattggacc atgatcttgc ccttcctctc     1140
tgtctgctta tggctcagca gagaaatggg gtaatctttc aggaaggtgg agagaaacat     1200
ttgaaacttg tgggaaagct ctatgaccag tgtcatgata ccctggtgca gtttggtggg     1260
tttttagcat ctaatctgag cacagaagat tatataaagc gagtgccttc aattgatgta     1320
ctctgtaatg aatttcatac accccatgat gcagcatttt tcctgtctag gccaatgtat     1380
gcccatcata tttcgtcaaa ataccgatga acttaaaaaa tcagaaaaag ggaagtaaac     1440
agcaacataa agtccataaa tacattacat catgtgagat ggtgatggct cctgtccatg     1500
aagcagtggt ctccttacat gtttccaaag tctgggatga catcagccct caattctatg     1560
ctacattctg gtcattgaca atgtatgacc ttgcagttcc acacaccagc tatgaacgag     1620
aagtcaataa acttaaagtc cagatgaaag caattgatga caatcaggaa atgcccccaa     1680
ataaaaagaa aaaagagaag gagcgctgta ctgcccttca ggacaagctt cttgaagaag     1740
aaaagaaaca gatggaacat gtacagagag ttctacagag attgaaactg gaaaaggaca     1800
actggctttt agcaaaatct accaaaaatg agaccatcac aaaatttcta cagctgtgta     1860
tatttcctcg atgtattttt tcagcaattg atgctgttta ctgtgctcgt tttgttgaat     1920
tggtacatca acagaaaact ccaaattttt ccacacttct ttgctatgat cgagtattct      1980
ctgacataat ttacacagtt gcaagctgta ctgaaaatga agccagtcga tacggaaggt     2040
ttctttgctg catgttagag actgtgacca ggtggcatag tgatagagcc acatatgaaa     2100
aaggaatgtg gaaactatcc aggattcctt accatattac gggcaactgg atttgatggt     2160
ggaaataagg ctgatcaatt agactatgaa aattttcgac atgttgtaca taaatggcat     2220
tacaaactaa ccaaggcatc ggtacattgc cttgaaacag gcgaatatac tcacatcagg     2280
aatatcttga ttgtgctaac aaaaatactt ccttggtacc caaaagtttt gaatctgggt     2340
caagcttgga aagaagagta cacaaaatct gccaagaaga aaaagagaag aggccagatc     2400
tatatgcatt ggctatgggc tactctgggc agttgaaaag tagaaagtca tacatgatac     2460
ctgaaaatga gtttcatcac aaagaccccc ctccgaggaa tgcagttgcc agtgtgcaaa     2520
atgggcctgg tggtgggcct tcttcatcat caataggaag tgcatctaaa tcggatgaaa     2580
gcagtactga ggagactgat aaatcaaggg agagatctca gtgtggtgtg aaagctgtta     2640
ataaagcttc tagtaccaca cctaaaggga attcaagcaa tggaaatagt ggctctaaca     2700
gcaacaaagc tgttaaagaa aatgacaaag aaaaagggaa agagaaagaa aaagagaaaa     2760
aagaaaagac tccagctact actccagagg ccagggtact tggtaaagat ggtaaagaaa     2820
aaccaaagga agagcggcca aataaagatg aaaaagcaag agagaccaag gaaagaacgc     2880
cgaagtctga caaagagaaa gaaaaattca gaaggaaga aaaagctaaa gatgagaaat     2940
ttaagaccac tgtccccaac gcagaatcaa aatcaactca agaaagggaa agagagaagg     3000
agccatccag agaaagagat atagcaaagg aaatgaaatc aaaggaaaat gttaaaggag     3060
gagaaaaaac accagtttct gggtccttga atcacctgt tcccagatca gatattccag     3120
agcctgaaag ggaacaaaaa cgccgcaaaa ttgatactca cccttctcca tcacattcct     3180
ccacagtaaa ggacagtctc atcgaactca aggaatcttc agcaaagctc tacattaatc     3240
atactcctcc accactgtcc aagagtaagg agagagaaat ggacaagaaa gatttggaca     3300
agtcaaggga aagatccaga gaaagagaga aaaagatga aaaggacagg aaagagcgga     3360
aaagggatca ctcaaacaac gaccgtgaag tgccaccgga cttaaccaag agacgtaaag     3420
aggagaatgg aacaatgggg gtttcaaaac ataaaagtga agtccttgt gaatctcctt      3480
atccaaatga gaaagacaag gaaaaaata agtcaaaatc ttcaggcaaa gaaaaaggca     3540
gtgattcatt taaatctgag aagatggata aaatctcctc cggtggcaaa aaggagtcca     3600
ggcatgataa agaaaagata gaaagaaag agaacggga cagttcagga ggaaaggaag     3660
agaagaaaca tcataagtcc tcggacaagc acagataatg aagactttcc atcaaggtga     3720
gatcggactg gaactgttcg gctgcgacca gaaatttatt ttcctgagta aattgccgag     3780
aattaagaat gaagagggcc atttgcatct ccttaaatta ttcagttacc tgctttattg     3840
```

5467

```
ctccatgtgg gaaaacttaa aattgttaag ttgtgcatta ctgtatttta acttgttggc      3900
ttagtttcta catgtttatt ttcagtaatg gctgaaagtg ttaactgttc catactttta      3960
gcacaatgtg ctgcataagg ttacctgtgt acagagtttt actttagatt aactaaatat      4020
tgcctgggtt cagtttttat ttccattctg aaatgcttcc tttt                       4064
```

<210> 6798
<211> 2344
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (754)...(1414)
<223> similar to gi3970852 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6798
```
cgggtcgacc cacgcgtccg agaaaatggc actgcaaacc ctatcaagaa cggtaaaaca        60
agtccagcat ctaaagatca gcggactgga aagaaaacct cagtacaggg tcaagtgcaa       120
aagggggaatg atgaatctga aagtgatttt gaatcagatc ccccttctcc taagagcagt      180
gaagaggaag agcaagatga tgaagaagtt cttcaggggg aacaaggaga ttttaatgat       240
gatgatactg aaccagaaaa tctgggtcat aggcctctcc tcatggattc tgaagatgag       300
gaagaagagg agaaacatag ctctgattct gattatgagc aggctaaagc aaagtacagt       360
gacatgagct ctgtctacag agacagatct ggcagtggac caacccaaga tcttaataca       420
atactcctca cctcagccca attatcctct gatgttgcag tggagactcc caaacaggag       480
tttgatgtat ttggcgctgt ccccttcttt gcagtgcgtg ctcaacagcc ccagcaagaa       540
aagaatgaaa agaacctccc tcaacacagg tttcctgctg caggactgga gcaggaggaa       600
tttgatgtat tcacaaaggc gccttttagc aagaaggtga atgtacaaga atgccatgca       660
gtggggcctg aggcacatac tatccctggt tatcccaaaa gtgtagatgt atttggctcc       720
actccatttc agcccttcct cacatcaaca agtaaaagtg aaagcaatga ggaccttttt      780
gggcttgtgc cctttgatga ataacgggg agccagcagc aaaaagtcaa acagcgcagc        840
ttacagaaac tgtcctctcg ccaaaggcgc acaaagcagg atatgtccaa aagtaatggg       900
aagcggcatc atggcacgcc aactagcaca aagaagactt tgaagcctac ctatcgcact       960
ccagagaggg ctcgcaggca caaaaagtg ggccgccgag actctcaaag tagcaatgaa       1020
tttttaacca tctcagactc caaggagaac attagtgttg cactgactga tgggaaagat     1080
aggggggaatg tcttacaacc tgaggagagc ctgttggacc ccttcggtgc caagcccttc      1140
cattctccag accctgtcat ggcaccctcc accatcaggg cctgagcgga catccgtgct       1200
gatcacaata ctggtcctgc cagggcgggc caagacaaaa ttcactacat gggtcattcc      1260
atagtgcaga tgtattgaaa atggatgatt ttggtgccgt gccctttttaa cagaacttgt     1320
ggtgcaaagc atcactccac atcagtccca acagtcccaa ccagtcagaa ttagacccat      1380
ttggtgctgc tccatttcct tctaaacagt agatacttct gatggattct cggcattaac      1440
tcctgtttca aaaaagtgtg aacagtttta tgaatttgaa agaaaatttg gtagctcttt     1500
atagcattca ttcttaaaga tcagtcagaa taggtgattt ctaaataaac caaatagaag      1560
aatgaagtat ctctacaggg tagtaacttg attcctcttc aggagaaaag ggagctaaat      1620
tgcaagctct aactaagggt ttctgctact gacatcacaa cacagaaatg caagtgtggt      1680
acttccagtg aaagcacatg gcacctttct aggtgtgtag ccactgagaa gggacagtga      1740
aactgttatt tttgatatca gaatgtcatt tttatgtgca tatccctaaa attagggtta      1800
tttctacata cactagttac acttgtgaat ttttttttaag gtctctttta aatttccagg     1860
acagttaaaa accaatctag gttatcttaa agcatttaga aagtattat ctggagagtg        1920
cagagatttc agtccataca cctttctcca caaagcagag ccagaagtaa ctgacttatt      1980
```

5468

```
gtgccttaaa actctgtttc atttttaaaa acaagtgcca ttaaaatgga atatctaatg    2040
ataagcatat gaaataatgt gtaattagct caatttaact attccacaac ttacatattc    2100
caaaacaatg ttatacatga taaatatata taattttgt cagttaaaac aaattaaaaa     2160
aatggactat cgtcgcacag aagcctagaa caaaaatatg aagagaaata tctgacattt    2220
gtaaagaaat tataagaaga aaaaaagata cagaacagaa aacattcact actttagaaa    2280
cactttatgc atggcttctt gccccaaact tttattgtga tggccctaat aaagcagatt    2340
attg                                                                 2344
```

<210> 6799
<211> 626
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (110)...(530)
<223> similar to gi2809498 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6799
```
gccgagcccg cgagatgctc cccagagctg cctggagctt ggtgctgagg aaaggtggag      60
gtggaagacg agggatgcac agctcagaag gcaccacccg tggtgggggg aagatgtccc     120
cctacaccaa ctgctatgcc cagcgctact accccatgcc agaagagccc ttctgcacag     180
aactcaacgc tgaggagcag gccctgaagg agaaggagaa gggaagctgg acccagctga     240
cccacgccga aaaggtggcc ttgtaccggc tccagttcaa tgagaccttt gcggagatga     300
accgtcgctc caatgagtgg aagacagtga tgggttgtgt cttcttcttc attggattcg     360
cagctctggt gatttggtgg cagcgggtct acgtatttcc tccaaagccg atcaccttga     420
cggacgagcg gaaagcccag cagctgcagc gcatgctgga catgaaggtg aatcctgtgc     480
agggcctggc ctccctctgg gactatgaga agaagcagtg gaagaagtga cttgcatccc     540
cagctgtctc cctgaggctc cgccctggct gggagcctct ggcggcccct cccctccct      600
gcccttaacc ccagtaaagc tccaaa                                          626
```

<210> 6800
<211> 2126
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)...(1350)
<223> similar to gi609316 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6800

```
gaggaaggac agcacagctg acagccgtac tcaggaagct tctggatcct aggcttatct      60
ccacagagga gaacacacaa gcagcagaga ccatggggcc cctctcagcc cctccctgca     120
cacacctcat cacttggaag ggggtcctgc tcacagcatc acttttaaac ttctggaatc     180
cgcccacaac tgcccaagtc acgattgaag cccagccacc caaagtttct gaggggaagg     240
atgttcttct acttgtccac aatttgcccc agaatcttgc tggctacatt tggtacaaag     300
ggcaaatgac atacctctac cattacatta catcatatgt agtagacggt caaagaatta     360
tatatgggcc tgcatacagt ggaagagaaa gagtatattc caatgcatcc ctgctgatcc     420
agaatgtcac gcaggaggat gcaggatcct acaccttaca catcataaag cgacgcgatg     480
ggactggagg agtaactgga catttcacct tcaacttaca actggagact cccaagccct     540
ccatctccag aagaaactta aatcccaggg aggccatgga ggctgtgatc ttaacctgtg     600
atcctgaaac tccagccgca agctaccagt ggtggatgaa tggtcagagc ctccctatga     660
ctcacaggtt gcagctgtcc aaaaccaaca ggaccctctt tatatttggt gtcacaaagt     720
atattgcagg accctatgaa tgtgaaatac ggaacccagt gagtgccagc cgcagtgacc     780
cagtcaccct gaatctcctc ccaaagctgt ccaagcccta catcacaatc aacaacttaa     840
accccagaga gaataaggat gtcttaacct tcacctgtga acctaagagt gagaactaca     900
cctacatttg gtggctaaat ggtcagagcc tccctgtcag tcccaggggt aaagcgaccc     960
attgaaaaca ggatcctcat tctacccaat gtcacgagga agtgaaacag gaccttatca    1020
gtgtgaggta cagggccgat atggtggcat ccggaagtga cccagtcacc ctgaatgtcc    1080
tctatggtcc agacctcccc agcatttacc cttcattcac ctattaccgt tcaggagaaa    1140
acctctactt gtcctgcttc gccgagtcta acccacgggc acaatattct tggacaatta    1200
atgggaagtt tcagctatca gggacaaaag ctctctatcc cccaaataac tacaaagcat    1260
agtggggctc tatgcttgct ctgttcgtaa ctcagccact ggcaaggaa agctccaaat    1320
ccatcacagt caaagtctct ggactgggat attgaccctg gaattctact tagttcctcc    1380
aattccattt tctcccatgg gaattcacgg aagaggcaag gacccccactc tgtttccagg    1440
aaggccctat taagctggga gggtggggac aacttcggat gttaaatttt catggggga    1500
aaaccccttg ttaccctgga catgtggagg ccattcagga acttcaccaa aatgtttcgg    1560
acaccataac aacaggctac tcaaactgta aaccagggat aacaagttga tgacttccac    1620
actgtgggac agttttttccc aaagatggtc aggaacaaga cttccccatt catggattaa    1680
gggctcccca ccccccccta aactgtccct tgcctcatgc cctgccctct ttccacttgg    1740
gcagggttaa tggcagttca tttaggaatt ttcacatgta gttaggtttt tgaggggtta    1800
acaacaggag tgttcaggat atggttcatc ttcaaccttc aaacttttta cgttaacatc    1860
ttcaggggg gaaatgtggg cttcttctcc atcttggcat acagggctc ccaataggaa    1920
atggaacaca ggggttattg gcctgtgtgt tttgcagagg aggtgggttt ctataaagag    1980
taggaaagct gaaattatag tagagtctcc tttaaatgca cattgtgtgg gatggctctc    2040
accatttcct aaggagatac agtgtaaaaa cgtgacagta atactgattc tagcagaata    2100
aaacatgtac cacatttgct aaaaaa                                         2126
```

<210> 6801
<211> 1005
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (227)...(783)
<223> similar to gi29408 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6801

```
ccccatccaa gactcaaact tagaaacttg aattagatgt ggtattcaaa tccttagctg      60
ccgcgaagac acagacagcc cccgtaagaa cccacgaagc aggcgaagtt cattgttctc     120
aacattctag ctgctcttgc tgcatttgct ctggaattct tgtagagata ttacttgtcc     180
ttccaggctg ttctttctgt agctcccttg ttttcttttt gtgatcatgt tgcagatggc     240
tgggcagtgc tcccaaaatg aatattttga cagtttgttg catgcttgca taccttgtca     300
acttcgatgt tcttctaata ctcctccttc taacatgtca gcgttattgt aatgcaagtg     360
tgaccaattc agtgaaagga acgaatgcga ttctctggac ctgtttggga ctgagcttaa     420
taatttcttt ggcagttttc gtgctaatgt ttttgctaag gaagataagc tctgaaccat     480
taaaggacga gtttaaaaac acaggatcag gtctcctggg catggctaac attgacctgg     540
aaaagagcag gactggtgat gaaattattc ttccgagagg cctcgagtac acggtggaag     600
aatgcacctg tgaagactgc atcaagagca aaccgaaggt cgactctgac cattgctttc     660
cactcccagc tatggaggaa ggcgcaacca ttcttgtcac cacgaaaacg aatgactatt     720
gcaagagcct gccagctgct ttgagtgcta cggagataga gaaatcaatt tctgctaggt     780
aattaaccat ttcgactcga gcagtgccac tttaaaaatc ttttgtcaga atagatgatg     840
tgtcagatct ctttaggatg actgtatttt tcagttgccg atacagcttt ttgtcctcta     900
actgtggaaa ctctttatgt tagatatatt tctctaggtt actgttggga gcttaatggt     960
agaaacttcc ttggtttcta tgattaaagt cttttttttt cctga               1005
```

```
        <400> 6802
tagcagccag gcttggcccc cggcgtggag cagacgcgga cccctccttc ctggcggcgg      60
cggcgcgggc tcagagcccg gcaacgggcg ggcgggcaga atgagtctgc aggtcttaaa     120
cgacaaaaat gtcagcaatg aaaaaaatac agaaaattgc gacttcctgt tttcgccacc     180
agaagttacc ggaagatcgt ctgttcttcg tgtgtcacag aaagaaaatg tgccacccaa     240
gaacctggcc aaaagctatg aaggtgactt ttcagacacc tctgcgggga tccacagaca     300
gcacaggatt ctaagtccta gcatggccag caaacttgag gctcctttca ctcaggatga     360
caccccttgga ctggaaaaact cacacccggt ctggacacag aaagagaacc aacagctcat     420
caaggaagtg gatgccaaaa ctactcatgg aattctacag aaaccagtgg aggctgacac     480
cgacctcctg ggggatgcaa gcccagcctt tgggagtggc agctccagcg agtctggccc     540
aggtgccctg gctgacctgg actgctcaag ctcttcccag agcccaggaa gttctgagaa     600
ccaaatggtg tctccaggaa aagtgtctgg cagccctgag caagccgtgg aggaaaacct     660
tagttcctat tccttagaca gaagagtgac acccgcctct gagaccctag aagacccttg     720
caggacagag tcccagcaca aagcggagac tccgcacgga gccgaggaag aatgcaaagc     780
ggagactccg cacggagccg aggaggaatg ccggcacggt ggggtctgtg ctcccgcagc     840
agtggccact tcgcctcctg gtgcaatccc taaggaagcc tgcggaggag caccccctgca     900
gggtctgcct ggcgaagccc tgggctgccc tgcgggtgtg ggcacccccg tgccagcaga     960
tggcactcag acccttacct gtgcacacac ctctgctcct gagagcacag ccccaaccaa    1020
ccacctggtg gctggcaggg ccatgaccct gagtcctcag gaagaagtgg ctgcaggcca    1080
aatggccagc tcctcgagga gcggacctgt aaaactagaa tttgatgtat ctgatggcgc    1140
caccagcaaa agggcacccc caccaaggag actgggagag aggtccggcc tcaagcctcc    1200
```

```
cttgaggaaa gcagcagtga ggcagcaaaa ggccccgcag gaggtggagg aggacgacgg    1260
taggagcgga gcgggagagg acccccccat gccagcttct cggggctctt accacctcga    1320
ctgggacaaa atggatgacc caaacttcat cccgttcgga ggtgacacca agtctggttg    1380
cagtgaggcc cagcccccag aaagccctga gaccaggctg ggccagccag cggctgaaca    1440
gttgcatgct gggcctgcca cggaggagcc aggtccctgt ctgagccagc agctgcattc    1500
agcctcagcg gaggacacgc ctgtggtgca gttggcagcc gagaccccaa cagcagagag    1560
caaggagaga gccttgaact ctgccagcac ctcgcttccc acaagctgtc caggcagtga    1620
gccagtgccc acccatcagc aggggcagcc tgccttggag ctgaaagagg agagcttcag    1680
agaccccgct gaggttctag gcacgggcgc ggaggtggat tacctggagc agtttggaac    1740
ttcctcgttt aaggagtcgg ccttgaggaa gcagtcctta tacctcaagt ttgacccccct   1800
cctgagggac agtcctggta gaccagtgcc cgtggccacc gagaccagca gcatgcacgg    1860
tgcaaatgag actccctcag gacgtccgcg ggaagccaag cttgtggagt tcgatttctt    1920
gggagcactg gacattcctg tgccaggccc accccaggt gttcccgcgc ctggggggccc    1980
accccctgtcc accggaccta tagtggacct gctccagtac agccagaagg acctggatgc    2040
agtggtaaag gcgacacagg aggagaaccg ggagctgagg agcaggtgtg aggagctcca    2100
cgggaagaac ctggaactgg ggaagatcat ggacaggttc gaagaggttg tgtaccaggc    2160
catggaggaa gttcagaagc agaaggaact ttccaaagct gaaatccaga aagttctaaa    2220
agaaaaagac caacttacca cagatctgaa ctccatggag aagtccttct ccgacctctt    2280
caagcgtttt gagaaacaga aagaggtgat cgagggctac cgcaagaacg aagagtcact    2340
gaagaagtgc gtggaggatt acctggcaag gatcacccag gagggccaga ggtaccaagc    2400
cctgaaggcc cacgcggagg agaagctgca gctggcaaac gaggagatcg cccaggtccg    2460
gagcaaggcc caggcggaag cgttggccct ccaggccagc ctgaggaagg agcagatgcg    2520
catccagtcg ctggagaaga cagtggagca gaagactaa agagaacgag gagctggacc    2580
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ctgtcccccgc cccccgcgct cccgtctgtc tgtcctgtct gattctctta ggtgtcatgt    2700
tctttttttct gtcttgtctt caactttttt aaaaaactag attgctttga aaacatgact    2760
caataaaagt ttcctttcaa tttaa                                          2785
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        <400> 6803
gactgtggaa gcacgagctt acataagtgg ttaggcaagc tggcgtgtgg acttgtgtgg     60
gatgggtgca ggtctgcata taaatcatgt tcctgggttt ctgggtgtga agcgcacacc    120
gacggggacg agagcgcata ggatggcgct tttagatact tccagtcttc cgatgttgtg    180
atcgcagtgt gagtgaagac actcaggatg gctcaaggat ccggggatca aagagcagtg    240
ggggttgctg acccagagga gagttctcca acatgatcg tttactgcaa aattgaagac     300
```

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atcattacaa agatgcaaga tgacaagaca ggggtgtgc ccatcagaac agtcaagagc    360
tttctctcca aaatccccag tgtcgtcaca ggtactgaca ttgtgcagtg gcttatgaag    420
aaccttttcca ttgaggaccc agttgaagca atacacttgg ggagccttat cgctgcccag    480
ggctacatct ttccaatctc agaccatgtt ctcaccatga aggatgatgg cacctttttat    540
cgtttccagg ctccgtactt ctggccttcg aactgctggg aacctgaaaa cactgactat    600
gccatctatc tctgtaagag gacaatgcaa aataaagcaa ggctggaact ggcagattat    660
gaagcagaaa acttagcaag. actccagagg gcctttgcga agaagtggga attcatcttt    720
atgcaagcag aagcacaagt taagattgac cggaaaaaag acaagacaga aaggaaaatt    780
ttggatagtc aagaacgagc cttttgggat gtccacaggc ctgtgccagg ctgtgtgaac    840
acaacagaaa tggatatccg aaaatgtcga cgtttgaaga atccacaaaa ggttaaaaag    900
tccgtgtatg gcgtgactga agagtcccag gcacagagcc cggtgcatgt actcagccaa    960
ccaatcagga aaacacccaa aaaggaccat ccggaaacag ataacatttt tgaacgcaca   1020
gatcgacaga cattgtttga aaatgtccaa agtggctgaa agtttaattg cctacacgga   1080
acaatatgtg gaatatgacc ctttgataac accagctgag ccatccaacc cttggatcag   1140
cgaagaagtt gctttgtggg acatagagat gagcaaagac cccagccaac agcgagtaaa   1200
aagatggggc ttttctttcg atgagatatt gaaggaccag gtggggcggg accagtttct   1260
acgattcctg gagtccgaat tcagttcaga aaacctcagg ttcctggctg ctgtccaag   1320
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ttctggctcc aggggctcca agtgcaatca acctggattc tcacagctat gagataacca   1440
gtcaaaatgt caaagatgga gggagatata catttgaaga cgcccaggag cacatctaca   1500
agctgatgaa gagtgacagc tatgcccgct ccctccggt caaatgctta ccaggatttg   1560
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tccctcctga accgtcctca ccgcagtcca ggggcctggg gccgcnggga ccccacaggg   1680
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gagaccagaa agaaagagtc cacagagcct gggctgggcc cggtggaggc tcctgtttac   1860
agccctctct tctttgtaca gttgtattcc aacactccac tcgctaagag gccctgatcc   1920
cagctcattc aggggagaac acgtcgtggg gttcctgtca cgactatcac ttgagattat   1980
attattatcc tcactccctc gctgtctgga gacggtcaca ccttctggca aattcaagag   2040
gcatgagtgg accgagagca catccagcat ttgcatcacc tccctggcac ctcccatagt   2100
tacagccact acatccccac cgccgcctgt catccctcac gtctctgtgg ccacccgggt   2160
gtcactgcca gcaccaggca ctgctttcac gtaaaatgtc caaatcacat cttcagcaag   2220
aaagcaacct cacggattgc cccgcctcaa ggtctttcca ccctctttga tatcagcgtt   2280
cggagaggtc cccgccagcc cggtggctgc cctcaggtcc cgtcacatgt ctcaagggtc   2340
cagcgttcga ggaagcactg ttgtagatga cagagctttt tgtttcacag ctgcggggat   2400
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cttggtttat tccctcatgt tttactcaaa ataaacatgg ccatgaactc aggggccatt   2520
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gctggattgc agggctggca gcccccacgt ggtggcatcc tgacaggcac agtgagaccc   2640
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caggccaggc cacagggctc tccctcccca gtctttatct gaaggcccca gcccaaagca   2760
cccctccta aacccgggtc accctagggg gaaatgcaaa aacctgcaaa agatccacct   2820
gtattccctg tgtgtgtgtg tcaaaatgac catttgccaa cctggctgtg aggtaatgta   2880
tgtaaagcac cgagtcaggt gcctgatacg cagtaggtgc ttaacaaaca gtagctaata   2940
ctatcatcat tgtcattgtt attgtgacac ccatgagccc acagacagag ctgtattaag   3000
taacctgttt tgaatccaga cattcactcc cccacttgct atgactaccc tcctttgatc   3060
tattttttggt cataggtaaa aaaaaaaatc tctcttggga gcatataaac aaaaaacata   3120
gaagcaataa agcgatcgct ggtatttctt ttctcatgca gccaaattcg ccaaaaaaaa   3180
aa                                                                    3182
```

<210> 6804
<211> 2695
<212> DNA
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5473

<213> Homo sapiens

<220>
<221> misc_feature
<222> (262)...(2514)
<223> similar to gi190664 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6804
ctcaaaaggg gccggatttc cttctcctgg aggcagatgt tgcctctctc tctcgctcgg   60
attggttcag tgcactctag aaacactgct gtggtggaga aactggaccc caggtctgga   120
gcgaattcca gcctgcaggg ctgataagcg aggcattaat gagattgaga gagactttac   180
cccgccgtgg tggttggagg gcgcgcagta gagcagcagc acaggcgcgg gtcccgggag   240
gccggctctg ctcgcgccga gatgtggaat ctccttcacg aaaccgactc ggctgtggcc   300
accgcgcgcc gcccgcgctg gctgtgcgct ggggcgctgg tgctggcggg tggcttcttt   360
ctcctcggct tcctcttcgg gtggtttata aaatcctcca atgaagctac taacattgct   420
ccaaagcata atatgaaagc attttttggat gaattgaaag ctgagaacat caagaagttc   480
ttatataatt ttacacagat accacattta gcaggaacag aacaaaactt tcagcttgca   540
aagcaaattc aatcccagtg gaaagaattt ggcctggatt ctgttgagct agcacattat   600
gatgtcctgt tgtcctaccc aaataagact catcccaact acatctcaat aattaatgaa   660
gatggaaatg agattttcaa cacatcatta tttgaaccac ctcctccagg atatgaaaat   720
gtttcggata ttgtaccacc tttcagtgct ttctctcctc aaggaatgcc agagggcgat   780
ctagtgtatg ttaactatgc acgaactgaa gacttcttta aattgggaac gggacatgaa   840
aatcaattgc tctgggaaaa ttgtaattgc cagatatggg aaagtttttca gaggaaataa   900
ggttaaaaat gcccagctgg caggggccaa aggagtcatt ctctactccg accctgctga   960
ctactttgct cctggggtga agtcctatcc agatggttgg aatcttcctg gaggtggtgt   1020
ccagcgtgga aatatcctaa atctgaatgg tgcaggagac cctctcacac caggttaccc   1080
agcaaatgaa tatgcttata ggcgtggaat tgcagaggct gttggtcttc caagtattcc   1140
tgttcatcca attggatact atgatgcaca gaagctccta gaaaaaatgg gtggctcatc   1200
accaccagat agcagctgga gaggaagtct caaagtgccc tacaatgttg gacctggctt   1260
tactggaaac ttttctacac aaaaaaggcaa gatgcacatc cactctacca atgaagtgac   1320
aagaatttac aatgtgatag gtactctcag aggagcagtg gaaccagaca gatatgtcat   1380
tctgggaggt caccgggact catgggtgtt tggtggtatt gaccctcaca gtggagcaga   1440
tgttgttcat gaaattgtga ggagctttgg aacactgaaa aaggaagggt ggagacctaa   1500
aaaaacaatt ttgtttgcaa gctgggatgc aaaaaaattt ggtcttcttg gttctactga   1560
gtgggcagag gagaattcaa gactccttca agagcgtggc gtggcttata ttaatgctga   1620
ctcatctata gaaggaaact acactctgag agttgattgt acaccgctga tgtacagctt   1680
ggtacacaac ctaacaaaag agctgaaaag ccctgatgaa ggctttgaag gcaaatctct   1740
ttatgaaagt tggactaaaa aaagtccttc cccagagttc agtggcatgc caggataag   1800
caaattggga tctggaaatg attttgaggt gttcttccaa cgacttggaa ttgcttcagg   1860
cagagcacgg tatactaaaa attgggaaac aaacaaattc agcggctatc cactgtatca   1920
cagtgtctat gaaacatatg agttggtgga aaagtttttat gatccaatgt ttaaatatca   1980
cctcactgtg gcccaggttc gaggagggat ggtgtttgag ctagccaatt ccatagtgct   2040
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tatttctatg aaacatccac aggaaatgaa gacatacagt gtatcatttg attcactttt   2160
ttctgcagta aagaatttta cagaaattgc ttccaagttc agtgagagac tccaggactt   2220
tgacaaaagc aacccaatag tattaagaat gatgaatgat caactcatgt ttctggaaag   2280
agcatttatt gatccattag ggttaccaga caggcctttt tataggcatg tcatctatgc   2340
tccaagcagc cacaacaagt atgcagggga gtcattccca ggaatttatg atgctctgtt   2400
tgatattgaa agcaaagtgg acccttccaa ggcctgggga gaagtgaaga cagagattta   2460
tgttgcagcc ttcacagtgc aggcagctgc agagactttg agtgaagtag cctaagagga   2520
ttctttagag aatccgtatt gaatttgtgt ggtatgtcac tcagaaagaa tcgtaatggg   2580
tatattgata aattttaaaa ttggtatatt tgaaataaag ttgaatatta tatatagtta   2640
aaaaaaaaag aatgaaatag aaaaaaaact aaactaatta gaactactgt ataat   2695

<210> 6805
<211> 862
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (845)...(281)
<223> similar to gi4454702 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6805
gttttttttg tggaccccac tcaaaacgta tttattgaat gacaatttct tagtacagtg   60
tatactatcc ccaccaaagg aaaaaaacat taagagcaaa acaaggggtg gggggtggga   120
atattgctaa agaaaattct aataagagtt atctataatt atagctttta tttattatat   180
cttcattcaa tcatttatat cacaattagt ctaattgcat tcttgatgaa taactgactt   240
cagcaaagga gtcaatccac taagcaaagt tcatatatat ttttcaagat gttcttcttt   300
cgatcttgag tctttactct cctggattcc caagagaact gcattagcct ctagtacagt   360
tgtaatctgt tgttgctccc aggaacctag acgtaagttc aagatctaat agccgcaaac   420
cggaccctgg ttcctttctg ggtatttctc tccatccact tctggtcttc tacatacaca   480
atgaaacttt ccaccaaaat ctatgtacca gatcattctc cacaatatga aagatccgtc   540
caatgaccag tttatccttt gcaggtccca tctgtgtaag aggagaatgt ctcagcatag   600
atgcaaagga ttccacattt tttggagaac ccttctgtag gggctccacc ttctgtagaa   660
gctccgagtg ccgctccaac gcgctcgcga aaccgcctgc gcgcgtctta ggctccttgg   720
cattggaact accactttcg gatccactct cagtgcctac accccgaaag ggcctgaaga   780
agagaaacac tcgcagaaaa tggctctcgg cagccacagc acgggtccga cacagcgccg   840
ccatgacttc tttacctctg ac   862

<210> 6806
<211> 3261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3119)...(264)
<223> similar to gi508231 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6806
tttttttttt ctagctagaa aaggtgtttc ctcccatttt atttcataat acattttcac   60
agaaacatga tatatttaca aatatacagg taagagactg ctggtcagaa atcttaaaac   120

5475

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tcaaaatgtc atcaaaaatt aatttacaaa agccaccaag ggtccatgga ggcggccagg    180
tggatggtgt ggccggcgtc tgcgtgagcc tgcccagaag cccacgcagc ctcccggctc    240
tgcctccgct ggccccgtct caggaagcgc tggtttgcag gtttttggaa gctgcaagca    300
tcgctctgac tttggccatg agatcctgag tgattttgct ctgcacggaa gaaacgattg    360
ctgaagagat ctgggcttct ttttcctgag agactcccct ggagcgctcc tggctggagc    420
cccgactctc cacaggggag acgctggctg agtgcgccga gtgggccgcg ggggccgcgg    480
gccggggcgc tgcctgcttg ctgggtgaca ccgactgaga cctggccttg gacttggtcc    540
gcgaccggga ccgcctcttc ttcttcttct cgtggggact tctggagcgg gtccgcttcc    600
tgctggcccc agggctgcgg ctcacgcggt aggcagtggg cacactcctc tcttccctcc    660
gtctctcagg ggagtgggct ctcctccgag gggaccggga gcgggacctc gaccgccgca    720
ctgtccgata ggcactggga agagaatgct ttgcttttga gtgtgatcta gacctggact    780
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gctgtttctc ttttgactcc ttagacgcct gggccagctt ttcccgggca gcagctgcga   1140
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gcttcttctc ctcaacaact acacagggtg gggcaactgc tgggttagtg tttgcagcac   1260
tactagaact ttcttggcct tctttgcttt cttcatcatc atcactgtca tcatctagct   1320
taacacgatt ttttttccagg ggaagcagat cattttcttt ggccttgatt gcaaagctta   1380
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ccttcttccc gcctgagcct gcccgtgctc ccacctcggc tgcgtcttca ggcgcgccat   1500
cctccccagc atcacttggc ttctcgggag cagagtctgt gggagcctct tctggtgcag   1560
acacagcctg catgctatcg ccccccttctt tctggaggaa gaactgcttc ttaaactcat   1620
aataagcatt atactggtgc cacggctgca ggaactcaaa tctttgatca ttcttggcac   1680
gaacactggt ctcgaacttc aggccgttcc tggcgacata ctcggccagc ttgtcaatca   1740
cgggctggac gtcggggggc gggggggatga tggcggccac gggggcaagt gcacttgtgg   1800
tggtggttgt ggaggtggcc ccgctgctag tctctgctgt ggttgggggc ggtggtggtg   1860
tggtcccagg aggtggtggg gcggtggtcg tcactccagg ggagttagac acggtcacgc   1920
cagcaggaag ggtgctgtag taagtagtca cgtcgattcc gggaggggggc ggcgcccagg   1980
cagtaagtgc cgtccggtag catgtagtag ctgtaataca tggctgccac ggtcgagtct   2040
gccgtgtact ccacctggga gggctgcaca ggcgcaccgt ctgcgttgtg tggggtggga   2100
gtggaactgt cagcctgtgc cttacgaaca agtgctgcga ggggatgatc tgggtccact   2160
accttcaagg gcttcatcag ctcttcaagg cggttacact tcttggaggc aaagagagag   2220
ggatgaaggt aattcccatc ttcttcatca tcatcatctt cattgtcaga gctgactcct   2280
gattttttttt tctcgtcact tttgttttct gccaggacag tgtagcgtcc ctctttcatg   2340
gctttctgga tgaacttata gtaggggttg aggtagtggt cgaagcgcag aaagtcaaac   2400
tgggagttcc gggcctgctt ggccttcagc atgatctcaa actgtgctcc ctgcctgcac   2460
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tcagacggga cgctcaatcc taaggggggca acgaagggct cttcattttc ctctaaattt   2580
tcggcctcat ttttttctct ctgtttggaa ggctcctcct cctccgtcgg ctctgacggg   2640
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tgaccacgtc catcatatct gtcgatgagg atcttgtggt cccccatcca ggggatgagg   2940
tgctgtccct gttcctgagc cagggcccgc tcgtcgtccc ggaacagctt gcaggcatag   3000
ccgaaaacca agagctccac tcggctgccc ccaccgccgg caccgcctgg cccggcctcc   3060
tccttcgcgc cgcttttcct ctcgggtttg gcgcggcccc cgctcgcgcc gtacatgaca   3120
gcgtccccgg cgtccaggct ggtcctcttc tgtgccgcgc gacgtccctg atacctccac   3180
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tagcgggcct caaaaacgaa a                                              3261
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<210> 6807
<211> 2142
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2041)...(86)
<223> similar to gi6009642 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6807
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acgtcgaggc ccgggatgcc gcggatctgg cgttgcagcg ccccacccag caagggcacg   180
gcgccctcct cctcctcctc tgggggcggg cggcggtggc ggcgacacgg ccccgggggc   240
tggctctggg ggcacgggag gctgcgccgg cacgccctct cgcgcctccg gagatccctg   300
ccgcttcgcc ctgcgccccc tcgtccaggg caccgccttc aagcctcctc ctagctcctt   360
ctcctcctcg gggcttgtcc ggtgaaaagg gttctcgccc tttcaagtaa gcgctccagc   420
ttcttgctga tgagcttgtt gttgagaata ctgcgggcca ccatgaggga ggacttcttg   480
gactgctcca tcatgagcct gcggttccgg ttgtgattcc atggtcttca gatgcttctg   540
gatgatgcca aactggcatg ggaatgaaga gggtcgcagt ctgcacaatg ggctgtcttc   600
accttcttca caaaatgctc catggcaatt tcctgggtca gatcctggtc tctgtagatt   660
tgctggatga ggccatcaag gtcctccacg gtttttcgga gctcctctgt cttcttggtc   720
ttgttagtga cgtactcctg cagaaagtca gccgtctgct tagggagctt ggtgcctacg   780
tacttaaagt gttccttgtg gaacttgctg tcaagatggc tggccatctc gtcctcatag   840
aaggtccggt atttgcacag agaacacaca aactggatcc tttccaccat gcggtctcgc   900
tgccgctttt tctgcttgtc ctgactcttc ttgcctgcct gcaacttgcg cttggtctgg   960
ccattttcat cctgggtggt tagggccccc ttctctggat cctctttgcc ttcttctctc   1020
ccatcctctt ttccctcctc atcctctccg tccactctgg agcccttctc cacagcctcg   1080
gtgccttcaa ggccctctgt ggcttccccc tcggtgccct catcattgtc tgagtcgctg   1140
ttgtccgagc agtccgtgcg ggtggctttg ctatctggct catcaggact gccgccctgc   1200
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atctgcttca tgccattgcc aaacccgaaa accaaaacgg gagccgcccg ggaaggcgcc   1320
ccaacctcgc atgcccctgg aacatgccgt actcggggaa tgatgttctg ggagaagagg   1380
gagggcaagc cgagaggcac cagacatgca ctggccccgg gcccccatgg ggtcttccca   1440
catgcgccca tagcctgagg ccattggccg gccgctccgg gcatcccggg cccagccctg   1500
tgccctggga ccgaaggtgt cgttgccacg catgcggaac tggtcgcggt aggcatcgta   1560
ttggccctca taggccattt ccatctcagg gtcaagctcg ctgtagtcat agcctgaccg   1620
gtacaggtcg cgctcactca ggacggccct cgagtcgcag gactcataag agtcatacct   1680
ttctccactt gagccgtaca cgcctccttg catcatgtct gtctccaaat gcggcaccat   1740
atctaagcgc tggttaattc tggataaaac ggaatcggca ctggcgctac ccgaggcact   1800
agtgtttgca tttgtgtcag agctaggcat ttcccaagag tgtgaagtgg ccataccata   1860
cccatagttg gtggtgttat cctggccata gccatagcca tagccatagc cctcgtagcc   1920
tctatttgtc ccagagttcc aagttccata tccataatca caggtgggct gagcgctggt   1980
atccgagtat gtcgactgca aagtggtttc agatccctgg acaaagcctg tgtagctcat   2040
ggtggcgggc aacacaacat ccgacgacgc cggcttctgc tgctctgaac atccgacgct   2100
gcgatagctg ctgctaacca cagggtcccc cggacgcgtg gg   2142

```
<210> 6808
<211> 2372
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (475)...(1855)
<223> similar to gi479173 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


    <400> 6808
ggaaaggaag acacatttac aaatggatat ttattacctg tacataggaa aatttatgcc      60
ctgcatttat acaaaaaagg gagggcaaag agcaaattgg tttcagctca aaacaattct     120
tacatgaaag tggcatattt tggggtagca tacactgatc ctcttcaaaa ggaataattt     180
gcttttctct tatcatggtt atgagagcta ctttgaatta atttttgctt tttgaaagta     240
catttaattc tcaaatgttt ctgcttttga atgcagtttg ggagagccca tggtgactgc     300
gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt cctgagaatg     360
attggggagg gctccttcgg cagagctctt ttggttcagc atgaaagcag taatcagatg     420
tttgccatga agaaataag gcttcccaag tctttctcta atacacagaa ttctaggaag     480
gaggctgttc ttttagccaa aatgaaacac cctaatattg ttgccttcaa agaatcattt     540
gaagctgaag gacacttgta tattgtgatg gaatactgtg atggagggga tctaatgcaa     600
aagattaaac agcagaaagg aaagttattt cctgaagaca tgatacttaa ttggtttacc     660
caaatgtgcc ttggagtaaa tcacattcac aagaaacgtg tgctacacag agatatcaag     720
tccaagaata tcttcctcac tcagaatgga aaagggaaat tgggagactt tggatctgcc     780
cgtcttctct ccaatccgat ggcatttgct tgtacctatg tgggaactcc ttattatgtg     840
cctccagaaa tttgggaaaa cctgccttat aacaataaaa gtgacatctg gtccttgggt     900
tgcatcctgt atgaactctg tacccttaag catccatttc aggcaaatag ttggaaaaat     960
cttatcctca aagtatgtca agggtgcatc agtccactgc cgtctcatta ctcctatgaa    1020
cttcagttcc tagtcaagca gatgtttaaa aggaatccct cacatcgccc ctcggctaca    1080
acgcttctct ctcgaggcat cgtagctcgg cttgtccaga agtgcttacc ccccgagatc    1140
atcatggaat atggtgagga agtattagaa gaaataaaaa attcgaagca taacacacca    1200
agaaaaaaaa caaacccag cagaatcagg atagctttgg gaaatgaagc aagcacagtg    1260
caagaggaag aacaagatag aaagggtagc catactgatt tggaaagcat taatgaaaat    1320
ttagttgaaa gtgcattgag aagagtaaac agagaagaaa aaggtaataa gtcagtccat    1380
ctgaggaaag ccagttcacc aaatcttcat agacgacagt gggagaaaaa tgtacccaat    1440
acagctctta cagctttgga aaatgcatcc atactcacct ccagtttaac agcagaggac    1500
gatagaggtg gttctgtaat aaagtacagc aaaaatacta ctcgtaagca gtggctcaaa    1560
gagacccctg acactttgtt gaacatcctt aagaatgctg atctcagctt ggcttttcaa    1620
acatacacaa tatatagacc aggttcacga agggttcttg aaaggccccc tgtctgaaga    1680
aacagaagca tcggacagtg ttgatggagg tcacgattct gtcattttgg atccagagcg    1740
acttgagcct gggctagatg aggaggacac ggactttgag gaggaagatg acaaccccga    1800
ctgggtgtca gagctgaaga agcgagctgg atggcaaggc ctgtgcgaca gataatgcct    1860
gaggaaatgt tcctgagtca cgctgaggag agccttcact caggagttca tgctgagatg    1920
atcatgagtt catgcgacgt atattttcct ttggaaacag aatgaagcag aggaaactct    1980
taatacttaa aatcgttctt gattagtatc gtgagtttga aaagtctaga actcctgtaa    2040
gttttgaac tcaagggaga aggtatagtg gaatgagtgt gagcatcggg ctttgcagtc    2100
ccatagaaca gaaatgggga tgcctagccg tgcccaccta ccctacttgt gtgattgtgg    2160
ggaaattacc ttaaccctct tcaagccccc aatttccctc aacccataaa atgaagataa    2220
taatgcctac ctcagaggga tgctgaccac agacctttat agcagcccgt atgatattat    2280
tcacattatg atatgtgttt attattatgt gactcttttt tacatttcct aaaggtttga    2340
gaattaaata tatttaatta tgaaaaaaaa aa                                  2372
```

<210> 6809
<211> 897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (621)...(254)
<223> similar to gi4200218 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6809
attttttttt ccattttcat aaacagatct ttataatcat gtaaattaaa caattttgtc   60
tttaggagac gcgcacacag aacatagagg taagagctag aataccagca atcttaggaa   120
ggcaaaatta aatcatcttt tgggagaaga gagaaaattg tgaggagaag gtgccagtgt   180
caaagattgg cttggcgagg ttattttctc tctgggagtc tgggaggtga tgagctccta   240
ccgctcactg cctctgttgt cttgcctatt ggttcctttc tgggcaagga agaacgttgt   300
ctctctttta gagttttgta ggcctctgtc agtaatccgt ggaagacagc tgtcctgggg   360
cccagaatgg caagttctgt aagtgaatgt tttctgttgg gatgtcatca tggaaaggct   420
caggtgtagt ctggaatttg ggttgatgaa gactcattct ataactcata caattctcaa   480
aggatgcttt tggatcatct gggattttca ttgttcttgg ttgtaccatt ttcatttctt   540
gacatgtgga gcacagctgt tggtttctga gcagcatgga gtcacactgg ttcctcctgg   600
cctcagactt gctatcagct gaagcctggc ctccaagaag agctgctcca tttctatctg   660
gagaagggat gagggcattg aagagtcgtg gaaggcagct gtgacaggct actttaaagg   720
cgactcaaac atttgagacg ccatgtcctg caggcctcat ttcctccatt ctgtcttgct   780
ttctttccca gccctgaaac ccaggtcttt ggtctttttc ttctgttgca ttcccttctc   840
actcggtttc cttacgacca gctcagcagc aatcggacgc gtgggcggac gcgtggg   897

<210> 6810
<211> 2254
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1602)...(2095)
<223> similar to gi5566106 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6810
gagcctttga gtctgaggcc aaagttgccc caccacccc agctaagtct tcagctgtgg   60
catcctggcc cagccacaca agctgtggag gtgcggggga ccaactccca ctctgccctt   120
ggaccacaac cctccttgct gggcaccaag cccaggtttt tggtttgggg gggacactgg   180
cctgcttaca gcggggagca gcacccaggg cggctctgtc ctgagcatga ctgtgctgtc   240

```
ccacagacca acaccaacta cagccaggag aagcaccgct gcgagtacct gcacagcaag    300
ctggcccaca tcaagaggct catcgccgag tacgaccagc ggcagctgca ggcttggccc    360
tagccgccct ccccgatggc ggggatctgg gagggtcggg ggagcaaaag gcggtgagag    420
aggatttatt taaaaaaata aacccgagga agatgctcat ctgagccagc accgccggct    480
ttcagggcag cccctgcaga cgtctggccc tggcgggtgg ctgcaagccc acctcggccc    540
tccctgcgct tcctgagcag tccctgctta tgatgggctc cccaggaagc ccactgcctc    600
ctccctggct gcagcctccg gggttcagcc tcctgtctcg ccagaagact cctaggccct    660
tggggtggcg cgcctgcctt ttctagtttt atacaaagac agccactttt agctactgct    720
aatgagactt gagtctattt ttgtacaaaa gagaagcaaa atcttttttc taaacctgtg    780
cctccctctc ctcggacacc cagggtctag ccgctgccct gggtcctgcc tgcagtatta    840
cagaggtcgt cgaaaggtgc agctgcgttc tgagggcgtg gggaatgggc aggtggcctc    900
tgctggtctc tggctctacg tttaggcacc cctttcccca gcctctcctc cttgggcagg    960
gtctctgctc cagcaagcaa acagggtggc ccaggtggct attttgagaa ctccagctgg   1020
tgcccccaga cagctgctca gagccaaggg ggcagagggc tttcagcgcc cccaggcctg   1080
ccctgctatt tcaggccctc agctgtcggg ggccactgtg tttctgtgct ccaagttgag   1140
actcggccgc agcggcgtca gacttttctt tgcgatgtcc tcggttttcc cattttgttt   1200
gctgctgctg ctcattccac actgttgaga ccttgtggtc tcgatgctgc tggcctccct   1260
ccgtccctct gtccacttgt gggtcctggg gtcgtcttag cagagccacc gccaaggttt   1320
gcactcaggg aggggctgat ggagggctgg gcgccatggg gtcagggagg ccccagggac   1380
ccatgggcag agctggggag ccaggaggat gggtctgcct gctctggggg tgcaggctct   1440
gcagacaccc caattgctgc tctgttgctg tgcctagtct agtgtccccc aaagcatcgg   1500
ggggccacgc aagtgtgggt gtgtgagtgt gcgtatgtgg ggacccccca gggcatggtg   1560
gggtctgagg cgtgtgttcc catttagggc tgaatgaagc catgacttgg aaaggtggtg   1620
ggggggtggat ggcggctgtg actcatggcc cagggatcac atggggggtca ctgctgccat   1680
cagcagtcag gcagggagaa cagaaatgca aaaatacaga tgtgtctatt tttctaaact   1740
ggggggtgga ggggtgcctc ctgacagctt ccaaagagct gactgtggag ggcccacagt   1800
gtatcccacc cctgcccgag agtctctctc ctttgggacc ccccgggttc ccagagctcc   1860
gaggaaactg atccttcatg tttcaatagc tgttgttgtt tttctctttg ggccgggccg   1920
ggccggggaa gggccgagca ggctccagga ggcctccaga gtcagctgga ccttgctgtg   1980
tcgcccgcag gcagccctgc agacaccggt gaggtgggat gatttcagga ggtcccagcc   2040
cgggactgcc cgcccctctg ccctgggaac cagtccaagg ggctgtcagt tgaatttgcc   2100
tttttgttgt tgttgttgtt tttgttgttt atttgttctc cttttaagga attatgaagc   2160
taagaaaagt tttgtgtttt gggggttggt ggacaaagtt ctagctgatt aaatatggtc   2220
taacttattg atactatttt ttttcttta atgg                                2254
```

```
    <400> 6811
gcgaccgccg gaaaagcgct tcggccacat ccagcagcag tagtcagccg caaggaccgg     60
gactcgaagg cccaccgcag ccggactaag tcgtccaagg agccgccttc ggcctacaag    120
gaaccgccca aggcctaccg ggaggacaag accgagccta aggcctacaa cgagacgacg    180
```

5480

```
gtccctcaga ccactgggag gccgggacga cagaccggtg tcacacaggg cctctcagag   240
cctgaggagc cgcaagtccc ccagcccggc aggaggtggc agcagctcct attctcggcg   300
gctgccgcgc tccccgagcc cctacagtcg acgccgctcc cccagctaca gccgccacag   360
ctcctacgag cggggcggcg acgtgtcccc tagtccctac agcagccagc agctggcgcc   420
gctctcgcag tccctacagc cctgtgctca gacggtctgg aaaatcccga agcagaagcc   480
cgtattcatc taggcattca agatctcgta gcaggcacag attgtctaga tccagaagtc   540
gtcattctag tatttctcct agcacactaa ctctgaagag tagcctggca gctgaattga   600
acaagaataa aaaagcacga gcagcagagg cagcaagagc cgcagaagca gcgaaagctg   660
cagaagcaac taaggctgct gaggctgctg ccaaggctgc aaaagcttca aacacttcta   720
cacctaccaa ggggaacacg gaaactagtg ccagtgcatc acaaacaaac catgtgaagg   780
gatgtgaagg aaaattaaaa ttgaacatgc accttctccc tcaagtggtg gaactttaaa   840
aaatgacaaa gcaaaaacaa agccacctct tcaggtaacg aaggtggaaa ataatttgat   900
tgtagataaa gccaccaaga aagcagtcat agttggaaag gagagtaaat ctgctgctac   960
aaaggaggaa tcagtatctc ttaaagagaa aaccaaacca cttacaccaa gcataggagc  1020
caaggagaag gagcaacatg tagctttagt cacctctaca ttaccaccgt tacctttgcc  1080
tcccatgctg cctgaagata aagaagctga tagcttacga ggaaatattt cagtaaaagc  1140
agttaaaaaa gaagtagaaa agaaactccg atgtcttctt gctgatttac cgctgccccc  1200
tgagctacca ggaggagatg atctttcaga gagtccagag gaaaagaaaa cagcaacaca  1260
gttacatagt aaaaggaggc ctaaaatatg tgggcctcgc tatggtgaaa ccaaagaaaa  1320
agatattgac tggggaaaac gctgcgtgga taaatttgat atcatcggaa ttattggaga  1380
aggtacttac ggacaagttt acaaagccag ggataaagac actggagaaa tggtagcctt  1440
aaaaaaagta cgtctggata atgaaaagga aggctttcca attacagcaa ttcgagaaat  1500
taaaattctc cggcagctta cccatcagag tattatcaat atgaaggaaa tagtgactga  1560
taaagaagat gctttggatt tcaagaagga caaaggtgca tttttatctgg tgtttgaata  1620
tatggaccat gatctgatgg gactactgga atcaggcttg gttcatttta atgaaaatca  1680
cataaagtca tttatgagac agctcatgga gggtctggat tattgtcata agaagaactt  1740
tttgcataga gatattaaat gttccaatat ccttctaaat aatagagggc agataaaact  1800
tgcagacttt ggacttgctc gattgtatag ctcaaaagaa agtcggccgt atactaacaa  1860
ggtaattact ttatggtacc gtccacctga actgctactg ggagaagaac gatacacacc  1920
agccattgat gtatggagct gtggctgtat ccttggcgaa ctcttcacta aaaaacctat  1980
atttcaagca aatcaggaac ttgcacaact agaattaata agccgaatat gtgggagtcc  2040
atgtcctgca gtgtggcctg atgtaatcaa actaccatat ttcaacacca tgaaaccaaa  2100
gaagcaatat cgtcgaaagt taagagaaga atttgttttt attcctgcag ctgcgctaga  2160
cttatttgat tacatgcttg ccttggatcc tagtaagcgc tgcactgctg aacaggctct  2220
tcagtgcgag ttcctccgag atgtggaacc ctcaaaaatg cctccaccag atctcccttt   2280
atggcaagat tgtcatgagt tatggagtaa aaagcgaaga agacagaagc agatgggcat  2340
gactgatgat gtttccacaa ttaaagcccc caggaaggac ttgtctctgg gcttggatga  2400
cagcagaacc aacacacccc agggtgtgct gccatcttca cagctgaaat ctcagggcag  2460
ctcaaatgtg gcacctgtaa aaacaggccc tggacagcac ttaaaccaca gtgaattggc  2520
aattctacta aacctactac aatctaaaac aagtgttaat atggctgatt ttgtccaagt  2580
gttgaacatt aaggtaaact ctgaggactc aacagcagct aaataaaata aaccttcctg  2640
ctggaatttt ggcaacaggt gaaaaacaga cagatccatc aacaccacaa caggagtctt  2700
cgaaaccgtt gggaggaatt cagccttctt ctcagaccat ccagcctaaa gtggagactg  2760
atgctgccca ggcggctgtg cagagtgcat ttgcagttct gttgactcag ttaataaagg  2820
ctcagcagtc aaagcagaaa gatgtgctac tagaagagag ggaaaatgga tcgggacatg  2880
aagcgtcatt acaactcagg ccacctccag aacctagcac tccggtgtcg ggacaagatg  2940
acctcatcca gcatcaagat atgaggatct tggagctaac gccagaacca gaccggcctc  3000
gaattctgcc tcctgaccaa cgacctcccg agcctcctga accaccacca gtcactgagg  3060
aagatctaga ttatcggaca gaaaaccagc atgtacccac caccagttct tcattaactg  3120
accctcatgc cggagtgaag gcagccctgt tacagctgct tgctcagcat cagcccccagg  3180
atgaccccaa aagagaaggt gggattgatt atcaagcagg agacacttac gtgtccactt  3240
cagactacaa ggacaacttt ggatcctctt ctttctcttc tgctccttat gttagcaatg   3300
atggtctagg aagcagttct gctccaccac tagaacgacg tagtttcatt ggaaattcag  3360
atattcagtc tttggataac tacagtactg cttcatctca ttctggtggt ccacctcagc  3420
cttctgcctt ttctgagtca tttcccagtt cagtagctgg atatggagac atttacctca  3480
atgctggtcc catgttgttt agtggagaca aggaccatag atttgaatat agccatggtc  3540
ctattgcagt cctggcaaac agcagtgacc cttccacggg gccagagagt actcatcctt  3600
```

5481

```
tgccagcaaa gatgcacaac tataactatg gtggtaactt acaggaaaat ccgagtggcc    3660
ccagcctcat gcatggacag acctggactt ctcctgccca aggacctgga tattcacaag    3720
gatacagggg acatattagc acatcaactg gcagaggcag aggcagaggg ttaccatact    3780
gagtatctgt ttttcctcag gcacatcatt tttatctgga aagactttc tagctgcaat     3840
ttaaggcagc aatccaagag acttgaataa taataattca acaacagctt tatttttatg    3900
tggagaaggg tcttgcatac aatagtttaa aaaagacaaa aaaaaccttt gcttaaattc     3960
atgctgttct aaaaactaga tcgattgtac atcttcacaa attctagtta acaatttat     4020
tttgtattct tgcagtttta agtggatgct aattttaggg gcataagcct tttatggccc     4080
tcttgcagat cttctgaact atgcacattt gtgctttttt tgtaagtttg gaccaacttt     4140
tatgtaacaa acagcccctc cccacctcca gtttacaac aatcagaaag ggcactgatt      4200
tatttggtat ttttcttttt acaaagctac ctttagtcaa aggtcactgt cagtctttgc     4260
acctgctttc agtgttattg tgaaaggtgt actttgtgct catttcagaa aataaaacac     4320
aacctttctc ttgatgcaac agtttttataa aaaaaaaaa aaggggcggc cgttttaaag     4380
aaccctggg ggggcccaac tttacccggg cttgcaacgt aatagttttt tccttatagg      4440
gggccgtatt ataacctacc tgggaatttt gggaaaggac ccttattttt ggggggggac     4500
atattgggcc aacctcccta caaaaattaa aggctttagg gaaaatataa aattttaaag     4560
ggtaaaaggg gtaaaactac ctgcatatgc ttgcggtttg g                        4601
```

<210> 6812
<211> 2200
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2201)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (185)...(2001)
<223> similar to gi5305443 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6812
```
tttcgtagcc ggtgctgctg caggctgagg ctgcggcaga ggcggcgagg cgcgggcggt      60
gaggacggac agtcaccgac ttagtccagt tccctgtgat ctcaaaacaa ttgttgcagc     120
aggctcctgg cagtctcaag cagttcatct tcttggtgta ctggtttcct attgtgattt     180
tatcatggaa aatcaattgg ctaaatcaac tgaagaacga acatttcagt accaggattc     240
tcttccatca ctgcctgttc cttcacttga agaatcatta aaaaaatacc ttgaatcagt     300
gaaaccattt gcaaatcaag aagaatataa gaaaactgaa gaaatagttc aaaaatttca     360
aagtgggatt ggagaaaaat tgcaccagaa attgcttgaa agagcaaaag gaaaaagaaa     420
ttggctggaa gagtggtggc tgaatgttgc ctatctggat gttcgtatac catcacaatt     480
gaatgtcaac tttgcgggtc ctgcagctca ttttgaacac tactggcctc caaaggaagg     540
gactcaatta gaaagaggaa gtataactct ttggcataac ttgaactact ggcagctatt     600
aagaaaagaa aaagtgcctg ttcataaagt tggaaatact cctctagata tgaatcaatt     660
ccgaatgcta ttttctacct gcaaggttcc aggaattact agagactcca ttatgaatta     720
ttttaggact gagagtgaag ggcgttcccc aaaccacatt gtagtgctgt gtcgaggccg     780
agcttttgtc tttgatgtaa tacatgaagg atgtttggtc accccgccag agcttctcag     840
acaactgaca tatatccaca agaagtgcca tagtgaacct gatggacctg ggattgcagc     900
```

5482

```
attaactagt gaggagcgaa ctcgatgggc taaggcacga gaatatctga ttggtcttga    960
tccagagaac ttggctttgt tagaaaaaat tcagagtagt ttactggtat attccatgga   1020
ggatagcagt ccacatgtaa caccagagga ttattctgag attattgcag ccatccttat   1080
tggagatcca acagtacgct ggggtgacaa atcctataac ttgatttcct tttctaatgg   1140
agtatttggc tgtaattgtg atcatgctcc ttttgatgca atgattatgg tgaacatcag   1200
ttattatgtg gatgagaaaa tttttcagaa tgaaggaaga tggaagggtt cagagaaggt   1260
acgagatata ccacttccag aagagctcat tttcattggg gatgagaaag ttttaaatga   1320
catcaaccaa gctaaagccc agtatctcag ggaggcatct gatctacaga ttgcggctta   1380
tgcctttaca tcttttggca aaaagctaac caagaacaag atgcttcacc cggatacgtt   1440
tattcagctt gcacttcagc tggcctatta cagacttcat ggacaccctg gttgttgcta   1500
tgaaacagct atgacaagac attttttatca tggccgtaca gagactatgc gatcatgcac   1560
agttgaagca gtgaggtggt gccagtccat gcaggatcct tctgtcaatc ttcgtgagcg   1620
gcagcaaaag atgttacaag cttttgcaaa gcataataaa atgatgaaag attgttcagc   1680
tggaaaagga tttgatcgtc accttttagg tctcttactc atagcaaaag aggaaggtct   1740
tcctgttcca gaactcttta cggacccact ttttttccaaa agcggaggag gtggaaattt   1800
tgttctctca acaagtctgg ttggctattt accgagtcca gggagtggta gttcccatgg   1860
tacacaatgg gttatggatt tttctaccat atcagagatg acaggtttgt tgtgggcctg   1920
ttcagcctgg gaaatcctgt cccgagactt gatgcgggaa aagctagttc agctgacttt   1980
ttgtgctttt catgatatgg atacagctgg atgaactctt actcatcttt gaggagatga   2040
attcatctat ttaaggcact tacccaaaac atatccatta aaacttgagt gctggggagt   2100
tgagttgggt aatatggaga tggggaaggg aatgtttgac ttgcttaaca ttcctttaaa   2160
caagttaaga aaacttgttt aaatgttgga antttggttg               2200
```

```
<400> 6813
tttttttttt ttactgggaa atgatgttct tctggacgta taaataacca tcaggtggcc     60
aattctcatc cagagtggac agggtggaat gggatcatcc ctgctttcaa atagggacat    120
tgacgtacag agagaggagt gggttagctg gggcccccagg gcacagcttc accaccctgg    180
ggaggtctgg ggagagcatc ctgtccttca ggacaccccc caccagcggc tgggaggtga    240
gcacgccatg agtcgcccca ggtctgggaa gagtgggtgc atgggtgctt aagaggctgc    300
attcttcagc aggccctgca cctgccccgt ccttccaacc cctgtaggcc gacgttttcc    360
ttttgctcca cttggatgtc cgaagccggg ttcaagacca gtttttgagg gcctgaattc    420
aggctgtgct gcaggatgtg cacgcccttc agggagacca cggcaagctc ctgcagccca    480
tcccccggaca ggtccacgtg agccatggcc agcaggggac tggagaagct ccgctgccac    540
agcagatgga acccgtgctg ggcctcagga agccccgact ctgggccccg gtacttataa    600
cacagcagtt cctgtccata ggtggccacc aggacttctg ccgcccatc caaatccaca    660
tcggtgacca ggctgcagag gacgctgtca aactggtcac tgccaggcag gagaagctgg    720
tcttcaagac cccggttcag caggtcccga tacaccactg ctggctccaa catgctggcc    780
acgagcacgc tgtactcatc ttgtagtggc ctgtccttgg tctccttggc ggccgagagg    840
ctgaacacaa tcactcggga gatgggaccg tcctgcagga ccgaccacat ctgcagaacc    900
```

```
tctcgactcc gctggtccac gtgggcgaca cggacataac cactctgaca gcccagagct      960
gagaggcgcc gggacgtgcc ggggaagttg tggacgtcca gccagaggac gctactggtc     1020
aggttcgtca gctctgggaa gaggttttcc acgggctgtt cctcaaactg atgcagcccc     1080
tcgttctcct tgtagagatg aatggccggg tcgttcccac tcaagagaaa cacagtctca     1140
agttgatccc cgacctggac ctccgcatgg cacagctgga acggagtgaa ctggagctcc     1200
aggttcaggc agctctgggc aatagagtca aggttgtact cagagccggg ctcgtagtcg     1260
cagtaaatgt tcaggaaggg gctgcccttg tcccctgaat ccttgatgaa cgtgatcccc     1320
acaaccagac cccgcttggg gggtgacttg ttgaaagtgt cgatggagac aatctccgca     1380
tccacgggaa tgtagttgaa ctgcagctcc ttggccactg gccggatttt ctgtcggagg     1440
tcttggtagc ggaagccgag caccttgcct ttaagggtgg cggccagcag ctccccgcgc     1500
ccgccggcgc cgcctgccag cccgtacaca ttgctctgcg acgagaagcg cgtgaagctg     1560
tcctcgcgca acggacaagg ccccgcggcc acggccgcct cccccatcat gcccctcagt     1620
taagcaccct ctccgcagcc cccgccccaa c                                     1651
```

<210> 6814
<211> 1644
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1645)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1084)...(237)
<223> similar to gi491846 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6814
```
tttttttttt ttgtgaaaaa ccaaacctca aaaagccact ttaattccgg cctaacagcg       60
ccaggtgcaa tgtctgggga cagactctgg gtacaatgct gtgtggcgac cactcactca      120
cacacggctc caagaaggcc cccaaggggg gacttacctt caggggGctg agccaagggg      180
gaaaggggtg gccccagaac aggggaaggg gcaggcatgg ggggaaaagg tgctacttct      240
tggcaaagga gatcttcatg gcgttgttct gcgtgatctt aaagccctgc agggcatcgc      300
gagctgcccc tgcctgtacc tcattgtcaa actccacgaa ggcgatgtca tgccgcccgg      360
gtaccagacg gacctccttg aagccaggga actgattgaa aagcatggac agcatgagct      420
cgttggtctc ctctggcagg ttggtgagga acaagatgtg attcggtgga ttctcagaaa      480
gaggctgggc agggggcatc tgtcctggca taagctgctg cggggGcatg gcccctggtg      540
ggatctggcc aggtgcaagg cctggcgggg ggatcatacc aggggGcggc atgtagggcg      600
gctggcccgg catgtggtgc ataatgcggg gcgcctgagt catcggcggc atgcccggga      660
caggcccctg gacagccccc accacggggg tggctccccc gccttgcaca gcccnttctt      720
ggtggccggg gtctcctggc tcttgggctt cctcttctcc cgcttgcggt cccgctccac      780
gaaggtgcct ttcatcttgg caatgatatc tgagtcggtc ttggcatact ggatacgcat      840
aggtttgtca tagaaaggga aaccctgcat ggagcgcagg gcgttggtgg cgctgctgac      900
ctccttgaag atgacaaagg cctggcccct catcttcagg ctccgtgata ccaggatatc      960
caggatctgg ccaaactggg agaagatggc gtacagggac ttttttagct catccttctt     1020
gatcttctca ttgaggttgt tgatataaat agtgtggtta gggcgggtct cgggaactgc     1080
catggagtga agtgttgagg taagtcttaa aggaggaaaa acgtgacttt agccctgggt     1140
```

```
ttctccaaat cctttgtccc aacgtcggct gctcaaggat cttcctccga aaaggaagtc   1200
aggtaaggcg ggagtagggg gaaggacgga ggcaaagcgc gacaacaaag cgtgcgtagg   1260
acccgcttct ccagcccgcg tgcggagaga actctcgaga gatttactac gacttccagg   1320
atgctctacg cgacccggtg ggcggagcac cctaaatggc gattcccatt ggcccaagca   1380
tccgaagggc cgtcccggag aaaaaacccg gatgtgggag ccagtataga aaaaagggac   1440
aggtcctagg cagcctggcc tcgagcagca agtttcctca gacgggccca ggaaggcccg   1500
gacgccaagc gtaccgctcg cctgccgccg atggtcgttt gcaccggagg ttaccttccg   1560
acagggccgt agttctctca accggcgcct gctacttccc tgagaccaaa ccacaaagct   1620
ttctctcctg gccccgccac gaaa                                          1644
```


<210> 6815
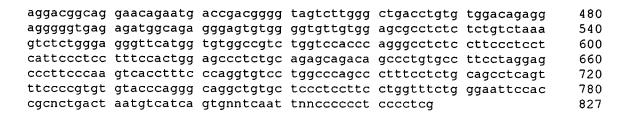<211> 2738
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (195)...(394)
<223> similar to gi895999 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6815
```
ccacaccaat gccttcatgt gtgggcaatc ccatggagca cacccacgcg gccaccgccg     60
cgttgcctgc tgcaggtcct gtcaacctgc ccacaggcat ctctcgcgtc cccactggct    120
accctagcga cctcaagcca gtcacctgga accagcacca gctggcccac ctacagcaga    180
tgtgcagcga ggctagtggg acgccagccc ctggcctgac aggcaagcat gcggcaggac    240
gcgagttggc agggcctggc tttgtgggca aggcccctgc ctacccgcag gaactctgcc    300
tggcgcagtc cttccatctg aagccacccc tggaaaagcc gaccccatcc ccaccagtca    360
acggcatggc agcccattg gcctacccca atggtcacta cttccaaccc ctgtggaaca    420
acattctgcc cactcccaat agcgacagct cggggtctca ggaccttgcc atgccgttcc    480
acggtgggca gcccacaggt gcacccctcg actgtgcggc agctcccggg gcccactacc    540
gagcagggac cggggggcggt ccagtggcaa gccagaacag cttgatgcaa acagtggatt    600
acctaagtgg ggatttccaa caggcctgct tccgagaaca gagcctggcc atgctgagca    660
aggcccaccg agccctggc aaccgagccc ccgatcccac agagagtcga agtcttcata    720
ttcagcaccc agggtataga taggtagccc tgctgccctc cacgtgcaac acatcataca    780
tcaccctcct aggtttagtc ttttaagtaa ctggatagtt tcaaagtttc actgctccag    840
tgtgatcatt cttagatgtc taagaaaggg aatttggtgg gatctaagtg gggacagaag    900
gggtcctctc gtcctcccct ccagcaactt ttggttttat gttagaacct aaccctaagc    960
ccaggctttt ctctccactg actgcctgtc agctagtctc tccaccttgg ccatttccag   1020
ccagctccca cccatctttt cttgaatctc ttcctgtttc ccttaggacg actgaggtgt   1080
gggctgacgg aatgccctag ttgaggtagt ataggtgctc aggcccctaa tccagacctc   1140
tacctgttgc tacccccctt cccctccctc caggactaag aagcaagatt cccaggtgc   1200
tctgaaagct aattacttac tcatcgaagg atctcaaatc aaagctgacc cagtcttcat   1260
atccttcaag ttccttcca ttcctcaagg ctttgttttg tgtctatatt gatcccacag   1320
ccactgcact tgcccttgcc acacttgatc tcaagggcat cttggaagta tttgaccatt   1380
tcttgagata tggggggaaa aagtctttgt attggcatct tggttccaga ctcccctttc   1440
caaacctaga aaaatacagt gacctttgag catacccaag atcccttct cactgttgcc   1500
tgtcccctaa ctcacctccc cacagcccct atcctttccc cctcaacaaa aacaaaatct   1560
accttacttg aggaattagg taggtaagga atgatcacat tggagtttgg gattaaaaac   1620
accaaaaaaa aaaaaaatgc atttggttct ctctacactg gctaagaata ttgctctaca   1680
```


5485

```
ctgtaagttt taaacgttac gtttctgtat gaatgtagtg tgggtttgag tagcattgtg   1740
tgtgagtggc cccacaggta cattcaccct ctagtgcagc ccctcagttt aatgaaggaa   1800
aaaaaaacaa acacaaagcc ttaagctctt tgagtacttc ctttaccaaa tgagcatggt   1860
tctaacacct ggagctgggc ctacattgga aacaagcccc tcctgccctc tgtccattct   1920
tagagcatac cttcatccac tccatgctca gcacgtctca tcccaagcga caattagttg   1980
gctagaaaca cttttctgta attttaaact tagactgttt tgttacaaat ttttgcacca   2040
ttctgttaaa gatgcagaat tgggcttttt tattttttac agatgaaata agcccttacc   2100
tttcctcttg tctctgggga atgtcagctg atggttctta tttaaggttt tgcattttgt   2160
tcactatcca ctactgttcg ttagccagaa attctctagt gatctgaagc aatgtgactg   2220
aagaccagtt ttaagttatg tgttggcaag ttgccttata tttaaaagga aaaagaaaaa   2280
aaaaaaagcc tgattgtgtt atgccaaatg atagcaacat gaagtcctaa tttattgttc   2340
ccaattgttt tcctgccgtc tgtgaacact ggtacctccc tgtcctgatc ccccaggagc   2400
acctgtagct tctgactcaa tgccttctcc gaaggtgttg gccgccatct cacccagggc   2460
cctcttccag ttcctgcttt tctgagtcag atttaaagag caccactgtc ttccccctac   2520
cccttgcttg atctccaaag cagatattct tgctgtattt ttttttcctc cccaatacct   2580
ctccctgaaa ggtggagctg ctattttagg aaactgggac cagacaacaa cttgggggct   2640
ttaagtcaaa caacctcaaa cccatctctt cctgtgtagg ggtgcaagcc tctgaagctc   2700
tcactcccac ccttagtctg catggaaaat gactggga                           2738
```

<210> 6816
<211> 5669
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5429)....(1873)
<223> similar to gi4240147 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6816
```
tttttttttg ccagttgaag tatttggatt taactttacc caactaagac attcacacaa     60
catatgcatg tcagtctcct gttcagtcct agagcctgca gtattgtaat ttattgtaaa    120
accatgtaac caaatactta aatatatcca caacatctat accacagaaa tgcatagtac    180
ataatatact aacatctcaa aataaacttc tattacagtt ttatgcaaat tatggtaaaa    240
gattatcacc tgccacattt tgaaatggca ccaacttcaa catcaatgca ctagtcaaaa    300
tccttactag aagtgatgtc ttctgcatta tcatctgaac attcaaaatc aagctgttaa    360
tctaataacc acagtatgtt atcatttaaa atcactgtat atttggatgt taaagcaggt    420
agtaatacag caggaaaagt gtttctaatt cacagtttca aaactaaagg gtgcagtttt    480
caaatatctg attgcttaaa ttggtcactc aatttaacaa ctgcctcctt caatacatgt    540
aaactatgtt tgcacagcat taggagatgt cttttatttc agaattagtt cttactgtta    600
caggagcacc acaaatttta aggaagaggc tacagtgtga aatgagctca ctgaaggata    660
tgttaaataa aattttaact acaatataag gtactgcaaa agctttgttc cccagcacag    720
atcccttaat caggaaaagt agtgaacact tacccaatac aatatgtaaa ttcgctctac    780
aggagatggg gaaaaaccta actcaactaa aagaaaatac tattattagc taacaaacct    840
gtgatagctg gcttcagaat tttcctaaaa ataaaattca aaagcataca cagtatttat    900
atcctttgat aaggaatgta gacatccaaa cggaatgaaa gaaaaatctg gttttaagaa    960
tttctaagtg gaatcacaca cacacaaatg ggtaactgag aaaaactaaa tattcaaaat   1020
ttaagtaaga agatttataa tagaaaaaag tggcaaattg ttactgtgac ttgattttct   1080
gaaaacatct gcaaattcac actggcatta agaaaaccca agtctcaaaa attctccttt   1140
```

5486

```
ctttctctcc agataatgtg ttttctgtgc aaaaataaat atctgaaaat tgcactaata    1200
cttattttaa cttctatatt atgaataatc tgcacatgct gctttacaga cgatacatat    1260
ttgtaaactt actcatgcaa aattagtgtg cgcaacaggg atattgttaa ttttcatact    1320
taaaaatgat accttattat cttttaaaaa ttgccaaact ctctgaaatg gttaacaaat    1380
cttatatgga tattcttgtc tgccagctaa aaatcaattt atgttgctga aaacaaaaag    1440
ttatacaaga aaaagaaaca tggttttttgt tttgcaagat ttttgatttt taaatgagaa    1500
aatttataaa agaaagaaat tcatggtcac aaaattttaa cattttaatc ctaaacatta    1560
cagggtaaat agatactgga ccctatctcc atactccata aaatcctaac ttttagtttc    1620
catttcaaat gttgctgtaa ccactaaaac actagtggtt ttacaacctc tggattatgg    1680
aaatacacat ttctgaaata aatgctacaa aaacaacaat ggaagaaagc caaacaaaca    1740
gtctccatga aggaaaaaaa agtggaacat tttgaagctt ttagacactt ctctttccat    1800
gtcttatgat taacctgtca attcagtgca ttgtatggtc atatgtaatg gtccccatgg    1860
tgaacaaaca tctaactagt gtccattgat tccaagttag tagatgatga atctttctgg    1920
atactttcaa agatagccgc cagctcaggg ttagaactga tctgtgactg gaattcactc    1980
atcagtggac tcttctctgc ttctggaatg gttagtagtg ctgctactgc tctcatggca    2040
gatcgcttta attcatcttg ttttttcaaac tcctgcttta ctgagtttgc ctttacctta    2100
gttgtacatg ttgcacgtaa tggctcaaca agtcggtcca acctctgcag tactgcactt    2160
ggacaaaggg tagacagtct caccaacatt aaaaatgtca gcatcttaat atcataatgg    2220
tccttcaaac catcttcaac atgatttaga aattcaaaga tatcaagtct atcaagacaa    2280
ctgtctagaa gtgtgtacat acactcaaat gctgcctttc taatatccag accatcatca    2340
accgtatgtt taaatggacc catttctacc tctcttataa gctcctttct aacttttgtt    2400
tcattgtaaa gatgtggaag aacagtatcc aatagatccc ttattaatga tggcttgtta    2460
tgtgctgctg aattaaatgt gaccaaggct actcttctca cattcaaatc tgggtcttcc    2520
aaagttttta ggaaatcacc tatgcagttc tttaacagtg gatcaatagg ttgtggatgg    2580
tcagaaattg taaatttcac agccgtaacc actgagcttc gggcatatga tgagcctgat    2640
atcaagtacc ccttaagccg tggaaggaga gtttctggat caattagagt gagttttcct    2700
agacattcag caacaacatt tctggttcct tcctctgcac actcacagtg ctttagtaat    2760
aaggcccaga tgttttcaac atatggttta aggcccacca ctgatgcaga gctaataatt    2820
tccttcaagg aatgaagtaa aagatactgc cttttgggtt gactagttat ttcttgcagg    2880
acaaacggca gatattcagg aaggttgccc acactaatgc tgcctaatgc ataggatgca    2940
gctgatttga cttcttcact aggagatgag aaagcttcta gtattacaga ttttagttcc    3000
aactgtccac ttaagtcaat atgatgccca acttctccaa gagaaagtag agctaagaga    3060
cgaatggaat ctgtagacct tgagttcttg acatcttgaa taaactgacc tactacagct    3120
ggtccctctt tagggcatgc tcgagtaagg gcagctacac atttggcaat ggaataataa    3180
gactgcttat gagtaagagc tgtgctctga gagtaaactg gaccagtcag catgcgcaac    3240
aaatccatgt atcctaaatt atttgttcca gtgacaacca gagcttggaa aaagtctagc    3300
atggcactaa gagctccccc ctgcaataag ggtgatctca caagtccaat aagttcattg    3360
agaatggatc cacttatctt tgaaagggag gagggatata cttttgccaa agtggtaaga    3420
aaactgatgg ccatttgtga aacatgcata tcactttcgc tgataagagg tgggagctca    3480
tctagaactg catcaatcat ggcagctgtc aagctgtcac tatagttttt tattagaata    3540
tcaagggcag aaagagtacc cagtttcaaa gctctctggt tttttctaag aaatgaagca    3600
aggataggaa cccccttctcc cagaacaggc ctcaaatcta tcttcaaagg tgacccagca    3660
atcagtgtca atgcctttac tgtagttaac ctggtaattt cattctttag tctctccaag    3720
aaaatctgaa gtgtattagg caagtcagaa cccaaattgt ctccaaggtt gcaaataatt    3780
tgtcccatac aggaaatagc cctttccttg acttcctgat caatgtcagc tgctttttaat    3840
ctcttaatgg tacaggtaaa tagatctttg atataaggag ttgcatcaaa cgaggaaggc    3900
tgatctaaag gacgaattac tttgacaagc tgttgagtaa caagaagtgc ttcagatgta    3960
attttgtaaa atgggtctcc aacacaagcc accactggag gaaccaaagc ctgaacgtga    4020
ggatggaaga cttgaggaga atggttacag aggattacgt atagacatga caaagcatcg    4080
atcttcaaat tcgatgagct tgatttatca ttcagtgaga aaatgattcc tggtacaagt    4140
acaggaatgt gttgagttag ggccccaggt aatacattta ccagctcagt taacatgtta    4200
aaacaacact gtcgggtctt cacacttttt tctttcatct gtttgtgaag agctttaaca    4260
atgttgggaa cctgactctg aagcattgtt aaaggtgttt ctccctgctc cattgcatca    4320
gggtcacata gccaactttg tacaggacga gtttgcttca aaagagaaag gtatgcgtga    4380
aaaacatctg cccttacatt ctcctcacgc tctttaaatc tggatattag tgcagggaga    4440
gacggtcttg tagaattctg gaagcatttc atgccttgtg ctaactacag catccaagca    4500
cttcgcagct gcacgtctca ctttccaact catgtcatca tcatcactgt attcatcatc    4560
```

5487

```
actcccttga tcatcatcat caccaccatc agcatccatt gcattttcat cttcatcttc   4620
atcatcgtaa ttataatttg gatcataggt aagatattta agacaaatat ttataatggt   4680
agaaacatga ggatatactt ccttaggaca tcttcttaca aatgattcaa aggcttgaat   4740
acagtactct cttaattcat catcatctac attgcaaaat tttaccacca aaggaattat   4800
cttctcaagg tattcaccta ttctatgacc agcttgccta ctaatagcag caatacattg   4860
tatgtaggtt cttgttgttg acatagaatc attttttggac aactctgaca acagatgttc   4920
aataagatct acaaaaacta tatttccaca gctcataacc agatggccaa gagcgataat   4980
ggttctttc ctcactgcaa gtctagggct ggtcaactgg ggaagtagac aggtcagaat   5040
tgaaggatgg aaattaacaa gaagtcctcc ttgcctgctc aacatatcag ccataatatc   5100
caaggcttct agctgaacag agacatcttc ctgttttgct attgcacttg taagacgtcc   5160
agtaatcttt ttacatacat tagcagctaa tgcagagcca ctggaagctg gaggaagttc   5220
tccaattact gttttaagac caatacttga aatgtctcga agttgttctt tatcagaaag   5280
catgttagtg cagagggtat ctacaattgt ctctacttgg tattctttca ctttactcac   5340
taaaggacca agacatttga cagctaaatt ctgtacctct ccatttttat cttccaataa   5400
cttcaaaatc attttcacta ctttcctttc actatcatca tccaacttga tggaatcttt   5460
ctgcagttcc gtcatcaaat catttgtagc cataaaccta aagtccttgt cgctggatgt   5520
cattttttcc agcaaattgg aaatgtggta cgaggcgctc gccatgttga cggcctcgat   5580
cccgcctgct ggcgctgctg gagctgctgc ccccgccgc tgccgccgcc gccgccgcca   5640
ctgaagctcc tcctctcgct cgcggccgc                                     5669
```


<210> 6817
<211> 2580
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (245)...(1499)
<223> similar to gi559441 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6817

```
gcgcgccgag gatgcgggac tagccgggca ggctgctggc ggccgtcggg ccagcgaggc     60
ctcgcagcgg gcgggccctg gcgagtagtg gccgggcgcc gccccctgcg ccctgaggcc    120
cgggcccccgc cgcttctgct ttcccgcttc tcgcggcagc ggcggccgag gaggcgcccg    180
cgccggccgc ccccggggga agccgcgccg tctccgcctg cccggcgccc tgacggccgc    240
tgttatgcgt attcccgtag acccaagcac cagccgccgc ttcacacctc cctccccggc    300
cttcccctgc ggcggcggcg gcggtcaaga tgggcgagaa cagcggcgcg ctgagcgcgc    360
aggcggccgt ggggcccgga gggcgcgccc ggcccgaggt gcgctcgatg gtggacgtgc    420
tggcggacca cgcaggcgag ctcgtgcgca ccgacagccc caacttcctc tgctccgtgg    480
tggccctcgg acttgggggct gcaacaagac gctgcccgtc gccttcaagg tggtggcatt    540
gggggacgtg ccggatggta cggtggtgac tgtgatggca ggcaatgacg agaacttact    600
ccgttgagct gcgcattgcc tcggccgtca atgaagaacc aggtggccag gttcaacgac    660
cttcgcttcg tgggccgcag tgggcgaggg aagagtttca ccctgaccat cactgtgttc    720
accaacccca cccaagtggc gacctaccac cgagccatca aggtgaccgt ggacggaccc    780
cgggagccca gacggcaccg gcagaagctg gaggaccaga ccaagccgtt ccctgaccgc    840
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        <223> n = a,t,c or g

        <220>
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5490

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5492

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gaggccagcg tccagctggc ggtgctcccg ggatgtgccc tgacatggtt aatttataac    2820
accccgattt cctcttgggt cccctcaagc agacggggct caagggggtt acatttaata    2880
aaaggatgaa gatgg                                                     2895
```

<210> 6822
<211> 2419
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2420)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (2344)...(371)
<223> similar to gi31280 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6822
```
tttttttttt ttaaaaacat ttgggatttt tttttaaaaa aaaaaaaaac atcacaacca      60
tgaacattgt tacagttaag aggccctctt ggttctccac aatgatactg agcatgctca     120
caaggggttc ccattgttaa agtcttaaac aaccattttt aaaagaagga agaaaaaaaa     180
actccgcaca ctaccattta acttgtttta atgtttcttc acaaatggtg aaaaatacta     240
aagtacagac aaggaataat cataatgttg tggccaacat tataaatatg gaattataaa     300
tttaaaacat tttctggttt aaaaaataaa tctggtagtc aatgcagctc tgcggggtct     360
ctgcatctag tagggccgat ctctgcgctc ctgacggtgc tcgcctttat ccatttttcc     420
aggtcctcca cgtcctcctc ttcttcctcc catctgttcc atcaaaggtc caggggggccc     480
cccagggcca cctcgtcttc ctccaccaaa gccacctcgg tccatgcccc ggccaccacg     540
gaagccacct ctgtctccac cacggccacc tctgaacatt ccaccgggac caccacgatc     600
catgaggcca cctcttcctc cccgcatgcc accagggcca cctctgccac gatcaccacc     660
cggggggcgga aagggtggcg ggaggaagcc ttcaggcttt ggggccttac actggttgca     720
ctctgttctc caggcgaagt tctggtttcc acaacccgga ttgggacact gccagtctcc     780
agctcggtgc tggacgtttc ctcctccaga ggggttccct cgggaacccc ggggtcctct     840
```

```
tggagggaag cctcctctat ctcctccacg gcctcccatg cgacccatgg gtcccccagg      900
acctcctggg cctcctggac ctccacggag tggtggtggc atgcctctgc cctcacgggg      960
tggcagacca ccccgcatac tgttcattgg aggcttcttc cgagcaaggg agactttaag     1020
tttgctccct tgaaaatctt tcccatcaaa ccattccacg gcagccttgg cagtgggtgg     1080
gtcttcatag dacactgtgg catcgccttt gggctttcct gtttccttgt ccaggtagat     1140
gtggatcatg ggttgcccag ttctcttgtt catcttaaca accccacact gcttaaagaa     1200
gtctgccaga tcatctagag tcacactgtc atttaatcct tgtacataaa ttgcactgtt     1260
gtcagagtct tcatctggat ctacaggtgg gcctagatca agatctggtc cttcatccat     1320
gggtccacca ggcttattga agccacctcg ctctccagcg ctgcccattc caccgcgtcc     1380
tcctcccccgc ccacctctgc tcatgcctcc acgatcaaat ccccctcttc ccctgccccg     1440
gttatcaggg ccactcatgc tccggttctc tcctggtccg gaaaatcctc cagactcctg     1500
cccataaaca ccccatgcct actggggtgg tcctgtcgga atgaactctg ctgcccgtag     1560
ctgctgctct gttggctata ttgacttgga gcttggctgt aggatccagt ttggggtggg     1620
taactagtgg gaggctgctg cccatagctg ctttgttgac catagctact ctgctgtcca     1680
tagctgctcg gttgcccata ggtgttctgc tgagagtaac tgctctgatc ataactagtc     1740
ggctgtgtag aggaatagct ggtaggaggg taggatggag gtgcagtgac tggctgcatg     1800
gggtagctcc caggtacctg gggataactg tagttactct gtccatatcc taggctgggc     1860
tggttgtaac cccctgtgct agattgaggt tgactagtct cagtgggctt gtttccatcc     1920
tgcggtcttg taggtgcagt ggctgctggc tgctgcccat aggctggata agcaggctga     1980
gtgccatatg cagactgagc tgcataggag gcctgggtgg tggtgactgt agcagtggtg     2040
gtatcataag caccagtgcc atacccctgg acaggctggc tgtatgcctg gggggcagtt     2100
ggagtagtat aaccagtggg aggctgtcca taagaagttg cataggcggt ctgcccatag     2160
gttgcagtgg tctgagcctg ggtatagctg acatcagtgg gctgtccata ggttccatag     2220
ctttgttgcc catatgcctg ggtggtctgt gcatatcctt gagtgggctg ggcggtgtaa     2280
gcactgtagc cctgctgcgc tgcagcttgg ctataggtac tgtaatccgt ggacgccatt     2340
ttctctcctt cctcctcgtt ctctcaacgt ccgcggacgg gtgggtcgac tnnnnnttna     2400
nngtcnnntg cgcagcctc                                                  2419
```

```
<210> 6823
<211> 771
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (373)...(0)
<223> similar to gi15063 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


<400> 6823
accacgctgc aggcttgata gtcatatcat ctgaataaat attcctgatg tatcgatatc       60
ggtaattctt attccttcgc taccatccat tggaggccat ccttcctgac catttccatc      120
attccagtcg aactcacaca caacaccata tgcatttaag tcgcttgaaa ttgctataag      180
cagagcatgt tgcgccagca tgattaatac agcatttaat acagagccgt gtttattgag      240
tcggtattca gagtctgacc agaaattatt aatctggtga agttttttcct ctgtcattac      300
```

```
gtcatggtcg atttcaattt ctattgatgc tttccagtcg taatcaatga tgtatttttt    360
gatgtttgac atctgttcat atcctcacag ataaaaaatc gccctcacac tggagggcaa    420
agaagatttc caataatcag aacaagtcgg ctcctgttta gttacgagcg acattgctcc    480
gtgtattcac tcgttggaat gaatacacag tgcagtgttt attctgttat ttatgccaaa    540
aataaaggcc actatcaggc agctttgttg ttctgtttac caagttctct ggcaatcatt    600
gccgtcgttc gtattgccca tttatcgaca tatttcccat cttccattac aggaaacatt    660
tcttcaggct taaccatgca ttccgattgc agcttgcatc cattgcatcg cttgaattgg    720
ccacaccatt attattttcn natggtngtt gtcatatgcn gtcagtctca t             771
```

<210> 6824
<211> 708
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (144)...(653)
<223> similar to gi1789677 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6824
```
gcaatattcc cgggctgcga aaatgcgtac cagcaaatgg aagaattact ctttgaagtg     60
aatgaaggta tgctgcatta atcatttctt taattcagca taagttgtta tggcgaaatc    120
agcactgttc acggtgcgta ataatgagtc ctgcccaaag tgcggggctg aactggttat    180
tcgatccggg aaacacggtc cgtttcttgg atgctcacag tatccggcgt gtgactacgt    240
ccgtcctctg aaatcttcag cggatggaca tatcgtcaaa gttctggagg ggcaggtttg    300
ccctgcatgt ggcgcaaatc tggtattacg ccagggacgc tttggtatgt ttattggttg    360
cattaactac cctgaatgcg aacataccga acttatcgat aaaccggacg aaacagcaat    420
tacatgcccc caatgtcgga cgggccatct ggtccagcgc cgctcccgtt atggcaaaac    480
atttcactct tgtgatcgct acccggagtg tcaatttgcc attaacttca aacccatagc    540
tggagaatgc cctgagtgtc attatccgct actcatcgaa aagaaaaccg cgcagggtgt    600
aaaacacttt tgtgccagta aacaatgtgg aaagccggtt tcggcggaat aataacgtga    660
ataataacct gcaaagagac gctatcgcag ctgcgatcca tgttctca               708
```

<210> 6825
<211> 1554
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1211)...(674)
<223> similar to gi3319282 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
      <400> 6825
tttttttttt ttctttaatt gattttattt ttttacataa aaagttcagt aaaaattgga    60
taaagtaaag tgattttaag cagtaaatca atcttatcaa catagcacaa ggctggccaa   120
aaccacaagg cagcctgctt tggaatattt acatgataac aaaattaaacc ttgcaggaga   180
acttaaactg tccttacaaa gtcttcctgt gatcctagca tgtagaggct aaaaagcaaaa   240
cgaaaaccaa acaaaaacca ggaaaaaaca aattattttc aatatattca catatacatt   300
aaaatataat acagatcatc agggtaaagg gttgtgggtg gggatgcgca tgggtctgtg   360
cgctgacagc accgccaagg agaagaccca ggtttaagag tggagtcagg tctggccagg   420
gtctttttta agcccttgca cctctgatgg cttctaacca catgccaaca gctcacaact   480
aggtaatcac ttgtagatgg agttcatttt tgtggccttc agttgacatc tgcagggttg   540
aattccccag ggtgatgtat catcagtagc acagtgctga caggggtgga acagaaaggc   600
ccacaggatt tcctctccct agagtctgtc ttacctgacc acccatcctc ccagcctggc   660
ccaacagtca ctctaaattc agtgtcctct ttgggtttgt aaacagcccc aaacttctgc   720
atgtacttct taatgtactc cttggttttg tgtttcacat tctcattgca ctccaggtcc   780
ctcaggattc ttacagtact tcagctcctt attcataaca ccgtgagtca gcttgcgagc   840
cagatgttta aagtcttcag ttgtggtaat tcttccccac tttgcagtca ggtttccggt   900
aagggttcag gcactggacg atgaactggg acatctcttt tctgaatact tctttgcttt   960
tctttgctag ttcactggag gtgtctgctt ctgctgtctt gggcttttt gaagcccttc  1020
atggggtttt catcatatgt tggagttccc aggtccatct cagcttcatg ctcaaggctg  1080
gcatcatctc ctgggctttc ccaagtagga ggatcccact gagtctgcct tgtgatcaca  1140
tggtagtaat aaatcttccc ttctggatct cgagctgtct tccagttggg aggtaagaca  1200
atggttttg gtttgggagg agagggggc ggcagatcca agagattatt tgtcacaacc  1260
atttcagatg gctgcaaggg ctgaggctgc cctggtgcaa ctattgtagt cactgctgcg  1320
gctggctgta ccaccactcc ttgtggatga gctgtgaaaa tctgttgccc ctggatatac  1380
tgaagacttg gctgggcata actctgtaca attggtggag ttgtctgtga ataaggtgat  1440
gtcacaccat agaactgttg gacatgtcct gtcccttgat aatatatggt tgccttgaaa  1500
ctgtgcagga gagtactggc tgctgtacca ctgacagact gttggtttga atcc         1554


      <210> 6826
      <211> 1738
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1328)...(843)
      <223> similar to gi5712203 in the genepept database release 114,
         Run with FASTXY 3.3t00, default parameters


      <400> 6826
tttttttttt ttcagaatcc acacaccacc tggtggctcc ttttattata tcaatttatt    60
caagtgatta aaaaacttct tggcagcagg atgacaaaac aggtctgtaa acatgatttc   120
atcccccccat cccttcttcc aaggagcttc ctatgacagg aaatcgaatt ctagttggca   180
aatccagtga tgaggtctgt agaaaagggg tcccgtgtca cagccaggaa ggcagactcg   240
tccctttaac ccactccagc caggggtgct ggccaggatg tgctgttctg tcatgacgtg   300
gtcactgagt ctggttcgtt ggcagcccct tccccaggag gaggagact ctttggcagt   360
gcggcagccc tcccgggggc acgggcttct cagcagcaga cacaggcagg cgaaaagcag   420
gcagctgagc ctctccagcg agcatggtat tgctagggtt gcaggtgccc tggcaggtgg   480
```

5497

```
ccaggtgagg ggctgaggca caagtgctat caggaacttg gctgccccac aggggctgag      540
gacacccaga tggtccacgc cagtggcctt gaaatttccc ctgcagaagc cagaccgtgg      600
ggaaacaagc tttcgcgacg tgccacccct ggcagcttga ggcttcagtc cttgaagggg    · 660
ttgtgggcgc cccctggctg ctccttctct gcggccagag gctccccatt catctcctgc      720
agcgggtggt atgcatagtc cccatgcagg cgccggttcc tctctgctct ggacaggagc      780
aaggacaggt ttgctgcagt gctgatcagc aggaggaagg ccagcgccag ggtgagggct      840
agccaggcgg tcctggtgaa aaaggagagt tctcccgccc tcagggtggc ttcaggtggc      900
tggagacact gctttactct ggagacgctg cagttgccag tcttggggtc acagggacaa      960
tggtgctcac acttacaagg cctctggcag cccggcccat gccagccaag gggacactct     1020
tcactgcagt tggacccggt ccatccggca tcacagcggc agccggtctc cgtgcacagt     1080
ccgtgctggc tgcagttaga ggggccacag tccagctcat cacagccggg accccgccag     1140
aagtgcccgg tgcattggca gtgcccgtcc acgcaggtcc cgtggccgtg gcagtcaggc     1200
ggctggcagc ggggttcgtg cacacacacc acggtggaca cttggcgggg acagcgccac     1260
atgttgtcct ggcagtgatc tgacgggtaa ctggccaagg tcccgttgag cacaaaggtg     1320
gcagagccac ccccatccag gttgatggcg ttgaccacgt cctgtttcag caggaactcc     1380
gccatttccc acaggttgat gctgcggcac aaagcggcgc tgctcaggct cagcgcccac     1440
catcatttct catttaactc cttttccttc cacagtgcag agcatcacgc ccacagtgca     1500
ggcacatttt taagtggccc ccgcccccaa gcatgtctca tcctagcccc cggaagctgt     1560
gaacacgtga gatcacaccc atgcctgtgc tgttacatgg cataggaatc cttaagggag     1620
gggaaacggc ccggaggatc tgggtgcagc cactggaatc acaggagtgt tcaacacaga     1680
gagccttctc tggctcctcg tgccaagctt aacgtgttca cagtcaaggt gtttctat      1738
```

<400> 6827
```
taattattgt tttctttttt ttttcaacta ataatggcct tttttatta tgtggttgga       60
aaggttaaaa taggtgacac gtgaaaagtg ccttgcacat agaaagcact ctattaattg      120
agggggatat tattgttact gttcattgtt agtagtagca ttaaaactga tatgattgct      180
aatgaagaaa cagacttaaa gaggaagcaa acctcgaaca gatgccacaa taaagcaaca      240
aaattgctga ttcttcaggg ctctttctac aggacagagg gactagagct tactctccct      300
gaggttctct tgctgtttac tttggaagct ctgacctttc cagcagacac catcacctgt      360 ·
gccctgcagg gagcagagat tcggactttt taagtttccg cttctggctg ggtctgtggc      420
ccttgtctag gctctgctaa aacagatggc aaacacggcc actcagtagg tgtctttatt      480
catacttgtt gacatttccc atggggaatg gttgaaggga ggggcaggga gggctgagcg      540
ggaagccacg gcttggtttt cctccatcca gtggagaaga gactcggtag ggacatgcta      600
agtagagtga acaggggaac catcactatg tgggctgaga tgcactgtgc agtgacttca      660
gacaacctga gtccttctgt caggaaatgc aatttctaag tggaaaaaaa aaacaagacc      720
caaagaaaaa aacaaagtgc atacaaagca aactgctaat gtaagaaagg ttctaaggca      780
gccagcagtg aaaagccagg ggtctggagt ggccacctgg ccatgccctg tcccactgcc      840
ctgtgccagg ctgtcgggcc accagtgccc tcttgagaca gtctccattg gctccaaggg      900
ttctgtgagc cacagaaggt tgtgaaagga gaagagcctg aagtgtggca gcaccagggc      960
```
```

```
agcccaaagc agggctgcgt tgaaaatatc aaagtatctc tttaggggtg gctctgaggg    1020
ttggtgggat tggaggggga aggggcgcct gggaggagta cagtcagcat ctattcttgg    1080
gcaccgggag gagccactct ctggaatctt aaattaccag gtaggagtga gaatgctgat    1140
tagctgtaga gctgaaggca cggctgccag gcccctccgg gtccttctct agttctccag    1200
gcccggtgta tcgaaggcag tggagaggaa gggcctgtgg gagccagggc cagctcagca    1260
gcctagccag tcggatttga tgcttccaaa cttcacgctc ttcagacttt ggttctccag    1320
cttcaggtaa taggcaccct tgaagaagta gctgtgaccg ccgccctgca ggtccacgac    1380
ggcatccagg ttatcgggga tggcattcca ggcatctgcg atgagcttgg ggaagccagg    1440
atccattttc ttcttcacct cattgtatct ccagaatttg tctccagcaa agatgtatgt    1500
cttcttgttt ttgctccagt taaaggcggc atccactcgc tggacatcag ggggcagtcc    1560
caggctggtc agtggcttgg ggtaccctcg ctccaggtg ctggctgagt agatccagta    1620
ttcattccct gcaaagaaca cagccttctc ctcctgtggg gcctcgtata ccgcatcaat    1680
cttttccggg agctcaggcc agaatgtggc caccagcagg ggccccatgg gcttgtcacg    1740
tggcgtcaca gtccgccaaa tgaaccggtc cttgaagaag aagatctcac cacggatctg    1800
agcgatgcca tcaaatacaa tgtcctgttt gcagatctca ggagtgacag ggcccagcgt    1860
ggggggtgggg ccggtgccaa ggtcaatgtc aggagaggcc ccatagagct cctgaatgcc    1920
cttgatgtca tcctgggaca gacggaagtt cttggtgtag gtgtaaatgg gtgccatcag    1980
ggccccaggg tcttgggagt gctccagccc catggcgtgg ccaaactcgt gggctgccac    2040
gaggaacagg ctgtacctt ggtcagggca gaagccccac ttgcggtcgt catcgtagtt    2100
ggctgtggtc gcacaccaca tctttccgtc actgcggccg gcgctggtgc agctctcata    2160
tttgttgccc aggaaagtga aggggaagac acagggggca ccttctgagt tcccaccaac    2220
agtggacatg gcggtctcag ggcagaagcc atacttcttg tcgcggtcgt agtcctcagt    2280
ggtgccgcac cagcggtagc catccgtgcg gccctcagtg gtgcagctgt cataggatgt    2340
gccctggaag cggaatggaa acttgcaggg ctgtccttca gcgttgccgc ccatggtgaa    2400
cagggcttca tggggacaga agccgtactt gccatccttc tcaaagttgt aggtggtgga    2460
gcaccagagg aagccatcgc tgcggccggt atcagtgcag ctgttgtact ccttgccatt    2520
gaacaagaag gggaacttgc agtactcccc atcggcgttc ccatacttca cacggaccac    2580
ttggccttct cccaaggtcc atagctcatc gtcatcaaaa tgggagtctc ccccaacacc    2640
agtgcctggg gcgaaggcat gagccaggag tccgtcctta ccgtcaaagg ggtatccatc    2700
gccatgctcc cagcggccaa agttgatcat gatgtctgcc tctccatcat ggattcgaga    2760
aaaccgcagt ggggtcacat cgctccagac ttggaaggca cgagcaaagg catcatccac    2820
tgtctctggg tccagatcag gtgtgtagcc aatgatcctg tatgtgatct ggttcttgtc    2880
ccacttgggc ttgcgaggga agaagttgta gttggccaca tctgggttgc cgcagcgtgg    2940
cttccgcatg gtctcgatgg tattctggtc aagatcacct gtctggggca gtccaaagaa    3000
cttctgcatc ttctttagtg tgtccttcag cacaaacagg ttgcagctct ccttggggca    3060
gccatagaag gtgttcaggt attgcactgc caactctttg tccgtttttgg gggcgacatc    3120
gccggggaac ttgatgatgg gcgacggcgc ggcggcggcg tggctcagca ggcagcccag    3180
gagacagagc gccctcaggg gacccgtgag cgcggccccg ggccattagc gcctccatcg    3240
tagcgctccc tggccccgcg cgtcgcccgg gggtcgctgg ctcggtgcgt gtggccgcct    3300
cgccgcctgg ttggagcctg ctccgcggcg cagggctgcg ctccgagggt ccgctggctc    3360
ggtggcctgg ggtttgcccg gctcagcggc tcatggtccg gcccccgcgc cccagccccc    3420
gccgccgccg ccgccgccgc aggtcctggc aatccctttg tatgtttaaa gccccagatg    3480
cgcagcctcc agccaccgcc                                                3500
```

<210> 6828
<211> 2018
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (185)...(1910)
<223> similar to gi3184391 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

<400> 6828
tttcgtgagc ctcctgcgcc cgttgaggcg ctaaagggct taccccggag gcgggtggaa   60
gggcgggcag aggctcctct taaataccgc tcccggccgc acttcgcgct caccccggcg   120
tccgctttct ccctcgccca cagctgccgg atagtgctga agaggagggg gcgttcccca   180
gaccatggca tctacggaag gtgccaacaa tatgcccaag caggtggaag tgcgaatgca   240
cgacagtcat cttggctcag aggaacccaa gcaccggcac ctgggcctgc gcctgtgtga   300
caagctgggg aagaatctgc tgctcaccct gacggtgttt ggtgtcatcc tgggagcagt   360
gtgtggaggg cttcttcgct tggcatctcc catccaccct gatgtggtta tgttaatagt   420
cttcccaggg gatatactca tgaggatgct aaaaatgctc attctccctc taatcatctc   480
cagcttaatc acagggttgt caggcctgga tgctaaggct agtggccgct tgggcacgag   540
agccatggtg tattacatgt ccacgaccat cattgctgca gtactggggg tcattctggt   600
cttggctatc catccaggca atcccaagct caagaagcag ctgggggcctg ggaagaagaa   660
tgatgaagtg tccagcctgg atgccttcct ggaccttatt cgaaatctct tccctgaaaa   720
ccttgtccaa gcctgctttc aacagattca aacagtgacg aagaaagtcc tggttgcacc   780
accgccggac gaggaggcca acgcaaccag cgctgttgtc tctctgttga acgagactgt   840
gactgaggtg ccggaggaga ctaagatggt tatcaagaag ggcctggagt tcaaggatgg   900
gatgaacgtc ttaggtctga tagggttttt cattgctttt ggcatcgcta tggggaagat   960
gggagatcaa ggccaagctg atggtggatt tctccaacat tttgaacgag attgtaatga 1020
agttagtgat catgatcatg tggtactctc ccctgggtat cgcctgcctg atctgtggaa 1080
agatcattgc aatcaaggac ttagaagtgg ttgctaggca actggggatg tacatggtaa 1140
cagtgatcat aggcctcatc atccacgggg gcatctttct ccccttgatt tactttgtag 1200
tgaccaggaa aaacccctc tcctttttg ctggcatttt ccaagcttgg atcactgccc 1260
tgggcaccgc ttccagtgct ggaactttgc ctgtcacctt tcgttgcctg gaagaaaatc 1320
tggggattga taagcgtgtg actagattcg tccttcctgt tggagcaacc attaacatgg 1380
atggtacagc cctttatgaa gcggtagccg ccatctttat agcccaaatg aatggtgttg 1440
tcctggatgg aggacagatt gtgactgtaa gcctcacagc caccctggca agcgtcggcg 1500
cggccagtat ccccagtgcc gggctggtca ccatgctcct cattctgaca gccgtgggcc 1560
tgccaacaga ggacatcagc ctgctggtgg ctgtggactg gctgctggac aggatgagaa 1620
cttcagtcaa tgttgtgggt gactcttttg gggctgggat agtctatcac ctctccaagt 1680
ctgagctgga taccattgac tcccagcatc gagtgcatga agatattgaa atgaccaaga 1740
ctcaatccat ttatgatgac atgaagaacc acagggaaag caactctaat caatgtgtct 1800
atgctgcaca caactctgtc atagtagatg aatgcaaggt aactctggca gccaatggaa 1860
agtcagccga ctgcagtgtt gaggaagaac cttggaaacg tgagaaataa ggatatgagt 1920
ctcagcaaat tcttgaataa actccccagc gtatcctatg gtaactgatg atataaacaa 1980
gctttctta aaaggaaaa aaatgcgtat atttctat   2018

<210> 6829
<211> 2510
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (46)...(2314)
<223> similar to gi1079787 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<210> 6418
<211> 2801
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2802)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (208)...(1040)
<223> similar to gi4006872 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6418
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cccccattg ctcgcctgca ggaattcggc acgagccgac gccacatggc ggcgcccagt   60
ggcgtccacc tgctcgtccg cagaggttct catagaattt tctcttcacc actcaatcat  120
atctacttac acaagcagtc aagcagtcaa caaagaagaa atttcttttt tcggagacaa  180
agagatattt cacacagtat agttttgccg gctgcagttt cttcagctca tccggttcct  240
aagcacataa agaagccaga ctatgtgacg acaggcattg taccagactg gggagacagc  300
atagaagtta agaatgaaga tcagattcaa gggcttcatc aggcttgtca gctggcccgc  360
cacgtcctcc tcttggctgg gaagagttta aaggttgaca tgacaactga agagatagat  420
gctcttgttc atcgggaaat catcagtcat aatgcctatc cctcacctct aggctatgga  480
ggttttccaa aatctgtttg tacctctgta aacaacgtgc tctgtcatgg tattcctgac  540
agtcgacctc ttcaggatgg agatattatc aacattgatg tcacagtcta ttacaatggc  600
taccatggag acacctctga aacatttttg gtgggcaatg tggacgaatg tggtaaaaag  660
ttagtggagg ttgccaggag gtgtagagat gaagcaattg cagcttgcag agcaggggct  720
cccttctctg taattggaaa cacaatcagc cacataactc atcagaatgg ttttcaagtc  780
tgtccacatt ttgtgggaca tggaatagga tcttactttc atggacatcc agaaatttgg  840
catcatgcaa acgacagtga tctacccatg gaggagggca tggcattcac tatagagcca  900
atcatcacgg agggatcccc tgaatttaaa gtcctggagg atgcatggac tgtggtctcc  960
ctagacaatc aaaggtgtcg gcgcagttcg agcacacggt tctgatcacg tcgaggggcg 1020
cgcagatcct gaccaaacta ccccatgagg cctgaggagc cgcccgaagg tcgcggtgac 1080
ctggtgcctt tttaaataaa ttgctgaaat ttggctggag aacttttaga agaaacaggg 1140
aaatgaccgg tggtgcggta acctgcgtgg ctcctgatag cgtttggaag aacgcggggg 1200
agactgaaga gcaactggga actcggatct gaagccctgc tggggtcgcg cggctttgga 1260
aaaacaaatc ctggccctgg actcggtttc ccagcgcggt caacgcatct ggaggggact 1320
ggaggaaacc cccttgttgg aagagattcc aagagaagca cggtttttctc tttcccttgc 1380
cctgactgtt ggagtaaaaa acctcttaaa tccattgtat cagaggtcct tacctctctg 1440
acagttacaa tgatctttgt atctgaactt tgcacgtctg ccgaaaaatc cgaacctgtt 1500
gactgggatt tttaacaatc cctttccccc ttttgtgtat tccatattgg ccggccccaa 1560
ggatgctcgc agaagccagc ccccaacccc agcccttccg tatctttccc ctccatcgcg 1620
gctttgcgat gaaagattag cccgcgaaca gaggcattga ttacaaacat gtccttggca 1680
gtggactctg ggcctggcat tcttcaggtt tctgtcaatc cagaaacgcg actttcctgg 1740
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cactaggaat tcgagcttgg gccccactcg cccaggtgtg aacagtggct gattagtggg 1920
cggtctagtc tctaaaatga cccctcccca gactggccct tctcgcatcg ggacccgcgc 1980
ttgcacgctg caggagccgc aaacgtcagc tgttctggaa accgagaggg tcccagagag 2040
aggagatacg ggcgcatttg agagcaaggg cctacttggc cgggactgaa gcttgcgagt 2100
tgagctccag ttcggccggc agttccatcc cgcttcagga acaggaatcc aagggcccac 2160
gctctgtctg ccaagggcca ttcctgcccg gagcaccctc ctttcccttg cgcttgctct 2220
```

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ccggtacctg ttccgcacct gagctcaagg gcagggagag gccgggcctc tggcagtcca    2280
cgaaggaagc cgtctgcctt cggttatgat tttaggaaca agtccaacga gggtgttcaa    2340
gcagttaatg gttgtgctaa ctcttgtttc tactgaagcg ggttttgcaa agctgacatc    2400
ccttaaagat aacttgggct ttcggaagcg gcaaggaaat ggcacctgta gttgccagga    2460
caggtggtgt cctcggccag gactaagagc cagctcatct ttgtaacatt cataatacgg    2520
gaaactgagg accaggtggc tcggaaaaga gatgagttcc aagcttttac ctaacacagg    2580
gttctctcgt cgtcccccaa cccctccagc tcggcttctt tgtgtccagg gttgtagatt    2640
tttggataga ggtgtttctg attctaagtg agtctgagaa ctggaaaaga ccaaggaggg    2700
gttgatgatt tacnaggtcc atagaaaaac tttttgtgtg gtcggaagtt ggccaagcag    2760
aggcccacag cctgatgcta ctgcccccac cccccaaag a                         2801
```

<210> 6419
<211> 896
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (821)...(361)
<223> similar to gi695581 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6419
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tttttttttt ttgggggatg tgatagagag gatttattca tttgataata gttagaacac     60
ataacctctg agatctctgt aatctcagat actttagttc tataattcta aatccaaggg    120
tctctataga taggcttgag acaagtgtaa acaaactcat gatctcagag aaatcttcaa    180
gtggcatgtt tcaatggtat gcttattaaa caaatgctca tgacagattt tcacaacagt    240
aacgaatgtt attttcacaa catccaaatc ttccttcctc agggaagaaa tgacatttaa    300
taagaaggtt gatggatttg gattattttt catgtttcct ggaggtaaaa ccagtgtcct    360
cacttgtttt cctcttttc ctcattttga agactatttg ttttcatttt tctttgcctc    420
ctctcgggct atgtgtcccc ggaaggcagc ttggattttg acagcagcaa cctcttcttt    480
ttccttatct tcctcagaag agtctaagat ggtgactgat gtctcttcct ccttcccaga    540
tatctgagac tcttcttgtt taggatcact tttctcaggt ggttcttgct cctcgaatgc    600
atgattgtta tagaagcggt cttctacctt actcccccat tctgctggat caaagttggt    660
tttctctctt ttctctagaa ggctctcaaa ataggctgct gcaaagctg gtatattgtc    720
cggttgctct ctcagaatct cgcgtgtcag cccttcaaga agattcccaa atccttgtgg    780
aattcggtag tgggtgttgg agaatggaat cgacatcttc ttggtaagaa ctgcctatgg    840
aacctccttt ctctccgagc tggtcccgcc ggttccggtc tcgtgccgct cgtgca        896
```

<210> 6420
<211> 1986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

5047
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<222> (1558)...(708)
<223> similar to gi3875443 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6420
taataataaa aaataacttt ttaaatgggc aaaggctctg aatagacatt tctccaaaaa   60
acatatacaa atggccaatc agcacatgaa aagatgttca acatcatcag ccatcaggga   120
aatacaagtc aaaattgcaa tggtatacaa ttaatatacc atttaacatt cccaatagta   180
gcctacaact tccatttcca ctgtggaaaa cggtttggaa gttcctcacg gtagtcaagt   240
tacttaactg ctctgtaaaa tgaagttaat cacattcact ttggatgaat gagttcatat   300
atattagcta taattactac agcaattatc attgtgtaca ttattactga ttgggtcaaa   360
ttattaaccc cgtctcccta attcatttac ttttgttact ttggatgaat atttaaagta   420
gtcttgaact gagatatgta tgtaaaggtt ctatcacatt ggcatataac atgtgctcaa   480
caaatgaaag ctataattat ttatttccaa agagtttaaa gattaaactt ccctcaaaac   540
aaacaaaagg caaggtaaca tcccaagctg tgaggggctg agtctctcct aggtgcaggg   600
cagcacagga actggctgca caaggccaga gaggttacgt ggcggctctc ttcaaattag   660
accacacaga gcgcttcatt ccctgtgcag tcttcacatc ttcccagtcc agtttgacgt   720
ctggaacctc atcttctggc tctggatcct tcctcaaggg cccccggggg gacgcaacca   780
caatgggcag agggccacat tcctcccgga tttccacaac atggaggccc ttcttatcag   840
ccagctgttg atgggtttcc tgtctggaga gcccacggaa gaggccctgg gtgaggctga   900
gcatattaat ggacccagag accttggcat acatgtcttt gatgccaatg agccggcaga   960
tggtgatgat ggccctgtgg cagcggaggc cgtaaccttt gggttgtttc ttcatcttga 1020
tatgcgtcct tttaaatctt aatgaaatat catggaatat tgtatggtct tcatatcgtt 1080
ctatataatg caaatggtga actgctctgt tctttgcttt cctgaaagca tccatccgat 1140
cagtagcttt cccaatagaa aaacctcaag tatcctggta tcaaaatcct catatgtttc 1200
tccacaggga ccagggtcag ggggggccaag actgatgcct ccccatgagt ttccactcca 1260
tcctcgctcc cgtttaacct tcatcttctt ctttcggtcc cactcttctc tctgctggat 1320
catgtctgcc tccaccttct cctgctcttc cttgcttctt tgggcaatgg tctgcactgc 1380
tccattttttc ataagaggga cattcagtcc gggccataga aaaccataac gcccttcacc 1440
aatgatctga cccctgttca gatcctttct tttcttcttt ttagttcttt tgcctcttcc 1500
tttttttgct ccagcaccag tctctgctaa agcgcctttc cacagctcat ctgcagtcaa 1560
tttagtgaag aaactatatg gtctatactg ctggctcatc aggtgactgg gagaagaaat 1620
acagcattgt gtctgcagtg cacggctcaa gctggcgtag ggatgggtgt ctctggttcc 1680
cagtgatgac aaatggccat tgccgagaac actcttccat gccaaatgg aagctgctgg 1740
taaggtgttt agggaacact gcctccccaa taaatgacct gccgtcccgc tacacagcac 1800
ggggaggcag cccacagcgc gcaccgcggt cgccatgctg gagtccgagc cgcgcctcgg 1860
cctccgccca gggcagcctt gcccaccgcc taccgcgact gctcctcgtc aaacggcaag 1920
ccttgggccg cagcggaatt cctgaggccc gagtccacgc agcagcgcag ccggggtga 1980
gggact   1986

<210> 6421
<211> 4038
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4039)
<223> n = a,t,c or g

5048

<220>
<221> misc_feature
<222> (3798)...(711)
<223> similar to gi1841430 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6421
cccgttgtta aaccccggcc agggaaatga atttagggg ccccataaaa aaaatattac   60
cttgccagcc cgcggacgta aaattggatc ctttaaaacg gccgcccct tttttttttt   120
tttcatttta taagcacttg gttttattgc acagaagcaa ttgaaagtga actccagtgg   180
aaagtgcgcc ctggcataat tcagtggcca gtccccggcc ccacctggac cgctcttcca   240
gaatagagag ctctgggcaa gggcttgacc actcctttgg aaaacagaag gcatttggga   300
ataggttaag acatctcaag cataatgtat ttctaactgc tcattcatta ttgcggtcat   360
ctgtcagttg cacatagagg càataaatgc acttatttgg aaaggagggg ggcagttttt   420
atagtcaagt gtttacgtgt ggcattcggc atgtatcaca ttcagctaca taagctatca   480
taattgtcca tcgcctgggg agggcatggg ggcagggggcc tgggagtgcc ctctcttgct   540
aacatattgc taacagaaat tcctgtttga agaaggaggc cccgtcatct aagcagtttc   600
ttcttacata aagacagaaa aagtgaaaat tgtgttactc tgatccttga gctccgggac   660
tcttctgagt ttctttggct gttccggatg ttcctttctc cctgccttac ttccccttgg   720
cggccttgtc ttctgtggcc ttctctggag gcttgctgtc ttttggtct gtgctggagg   780
attttttcagc cttttctgcc ttaggcttgc taggctcttt tgagagggtc ttgtcatctt   840
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cctcttcctt cttggcttca actttggatt ctttgggctt ttcgacagca ggttccttct   1140
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tggccttctc tggggacttg gccttctctg gggacttggc ttcttccttc actggggact   1560
tggccttctc gggggtcttt gcttcttcct tcactgggga cttggccttc tcaggggact   1620
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tctctgggga cttggccttc tcaggggact tggccttctc aggggacttt gctttcctcc   1860
ttcgttggag acttggcctt ttccggggac ttgacctcag ctggagattt tgcttcttcc   1920
ttcactgggg acttggcctc agccggtgac tttgcttctt ccttcactgg ggacttggcc   1980
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cttctcgggg gacttgacct cagcttggaa attttgcttt ccatccttct ctggggactt   2100
ggccctcagg cggtgacttt gcctcttcct ttgctggaga cttggccttc tcaggggact   2160
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tgatcttctc ttcgctttc acctttatgt gagtggacac agagggaatt ttggggagtc   2520
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gttttctgta agcggctatc tctatatcca gagccatctt gacattgagc aggtcctggt   2640
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gaatggcttc ctggtaggag gcaatgtcgg cctgatgacg gtcctccagc tcagagcgct   2760
gcctctccag tgagtccttg gtgcttttca gtgcctccag ctctgtggtc ctggcctgca   2820

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gctgacgccg gtactcagtt atctcctcct gcgctgagcg catagcgtct gtgttcacct    2880
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tctgcaccgc gtggccttca agctgcgcgc gaatctcgcg cagcgccgac gtcacgtcgc    3000
acttcagggc gtcgcgcgtc tcggcctgca tctgcgcctg cgcggcgccg gagccctgga    3060
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cgcgcgccgc gcccaggcgc agcaccgcgc cgcgcatctc gcggacctcg cgctcgtaca    3360
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tggaggagcc agcggcggag cgcgtcccgc ctgcgccacc ctttcgggct agcgcgtagt    3720
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cgaagctcat catggcctga gcagtggggg cttatttggc ctccccagga tggactggag    3840
catcagtagt gcccgggttt atcacaggac agatactcaa gacactctta tcaccattag    3900
gtggacttgg aggagcaaaa aacaagtgca gtggctcctc agcagagaca ctcctgaatg    3960
tatagacatg ggaaccacct tcagcatcaa aaaaggaaac gttctgcatg cccatatcca    4020
gaaaaatccc cactcgct                                                  4038
```

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        <400> 6422
aattcccggg tcgacgattt cgtggccagc aaggcaggga tcgaacgagt gtctggcagc      60
cgggagccca gcgaagagag cgagcaagct taggaaaacg agcgaagtaa agggagtagg     120
ggagactgag actgaccggt agccaggcag gcggacggac gcacgcccgg acagactgag     180
caggcgccgg agaaccactc acaggttccc cccgcctttc cctttgaaag ctaggatttt     240
gcctttcccg tggcgcccga gagagaatgc tggactctgc cgacttcagc gcaagctaag     300
atttctcagc tagggacaaa cgatcagccc aatcctgaga aggggggaac caagcacccc     360
gtccccatcc ccctcccctc ccccgactaa actcgggcgc caaacccagc ccttctctaa     420
ccaccctact tcctcctctc ctttctagca tggtggctgt atggacagtc tgacagaaca     480
gagactgaca tctcccaatc tgccggcccc ccacctggaa cactacagtg ttctgcattg     540
caccatgacc ctggatgtgc aaactgtagt cgtttttgcc gtgattgtag tcctcctgct     600
tgtcaatgtc atactcatgt tttttcctggg aacgcgctga atggagtcca gccacctgag    660
ctgtcgcgaa ctctcgcttt gatttcatcc cgagagccac cgagaaaaaa aaaaaaatca     720
cagacagaga cggggaaaga gagagaaaga acaagctttc ttactcaggg gggaaaacgt     780
tttgagcttc aacatggcct cgctgggata tgtatgacgt tgctgatcac tggagattcc     840
atcgttagtg ctgaggcagt atgggatcac gtcaccatgg ccaaccggga gttggcattt     900
aaagctggcg acgtcatcaa agtcttggat gcttccaaca aggattggtg gtggggccag     960
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```
                                 5050
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atcgacgatg aggagggatg gtttcctgcc agctttgtga ggctctgggt gaaccacgag   1020
gatgaggtgg aggaggggcc cagcgatgtg cagaacggac acctggaccc caattcagac   1080
tgcctctgtc tggggcggcc actacagaac cgggaccaga tgcgggccaa tgtcatcaat   1140
gagataatga gcactgagcg tcactacatc aagcacctca aggatatttg tgagggctat   1200
ctgaagcagt gccggaagag aagggacatg ttcagtgacg agcaactgaa ggtaatcttt   1260
gggaacattg aagatatcta cagatttcag atgggctttg tgagagacct ggagaaacag   1320
tataacaatg atgaccccca cctcagcgag ataggaccct gcttcctaga gcaccaagat   1380
ggattctgga tatactctga gtattgtaac aaccacctgg atgcttgcat ggagctctcc   1440
aaactgatga aggacagccg ctaccagcac ttctttgagg cctgtcgcct cttgcagcag   1500
atgattgaca ttgcttatcg atggtttcct tttgactcca gtgcagaaga tctgcaagta   1560
tcccttacag ttggctgagc tcctaaagta tactgcccaa gaccacagtg actacaggta   1620
tgtggcagct gctttggctg tcatgagaaa tgtgactcag cagatcaacg aacgcaagcg   1680
acgtttagag aatattgaca agattgctca gtggcaggct tctgtcctag actgggaggg   1740
cgaggacatc ctagacagga gctcggagct gatctacact ggggagatgg cctggatcta   1800
ccagccccta cggccgcaac cagcagcggg tcttcttcct gtttgaccac cagatggtcc   1860
tctgcaagaa ggacctaatc cggagagaca tcctgtacta caaaggccgc attgacatgg   1920
ataaatatga ggtagttgac attgaggatg gcagagatga tgacttcaat gtcagcatga   1980
agaatgcctt taagcttcac aacaaggaga ctgaggagat acatctgttc tttgccaaga   2040
agctggagga aaaaatacgc tggctcaggg cttttcagaga agagaggaaa atggtacagg   2100
aagatgaaaa aattggcttt gaaatttctg aaaaccagaa gaggcaggct gcaatgactg   2160
tgagaaaagt ccctaagcaa aaaggtgtca actctgcccg ctcagttcct ccttcctacc   2220
caccaccgca ggacccgtta aaccacggcc agtacctggt ccccgacgg catcgctcag   2280
tcgcaggtct ttgagttcac cgaacccaag cgcagccagt caccattctg gcaaaacttc   2340
agcaggttaa cccccttcaa aaaatgatac ctacagggag gcagataatt ttaaaataaa   2400
gtaaataaaa ttatatttat agatggacct ttttttcggag aagcactgtt gaaatttata   2460
cacacacaca cacacagaga cccttgagta cacatacaca cacacacaca cagacacaca   2520
cacacacaca cacacacaca cacacagaga gagataagga acaaaagtgt tttctgttgt   2580
tttggggaag tgaaatatgt ggttggtagg aagaggtacc aatgacttcc aaacatgtga   2640
ttccgtctta aaagttttcc atttttaccc tgtccccctt cccttgctt tcagaagttg   2700
acatttctat tcattgcttt tcttgttaag ataatctctt tactcccctg tgagtgattc   2760
actgccttgt cattattacg atagatgtgt ttgtattgtt tttttctga tgatactgat   2820
gttgatgaat ttttaatttt atttgatgtg gtagagttgg gaggtttcag ggttttttcc   2880
cctcttttac tttccattga ggaagggaat gagctccttt ctcctctcct tcagccaatc   2940
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gtcctcagtc atgccagtct ggacatgctc tgttgtgccc tgtgacaaaa ctgctcagta   3060
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gcaagggagt atcagactat gatgatgctg gagtggactt ctgttcaggg aacattttgc   3180
attcaggctg tttcttctat cactggggtt tcccatgttg cagcacttct gggtcgttgc   3240
aattttgcat ctaggagtta gtttgatcga gttattctct tttttcaagt cacttttgtt   3300
ataggtctcc ccctaggcct gtctctccct tagcccaaaa gatctgaact ggaagcagag   3360
gttgagattc tgcctcccag gagagggatt tacctgcccc ctagtaccag ataggtttag   3420
ggcagtgatc tctacagcaa tcagttcagt gtcctggttg tccctgctcc catttacaga   3480
tgtttgggca gcattgatag aacgtatgga ggggttcaag acacgacgcc cacctgatca   3540
agatcatcag ctaccttcaa attattgacc tggacagggt ccaagtctga tagtaacctt   3600
ttaacaagaa agaacaggga tgggaatgga aagagatagc cttgaatcca cagtattgta   3660
ccatgcattt tctaccaccc taaaattgtg tgagacttct cccattgtta acagattgca   3720
tggacaatct tccctgggct tctttctttc cctctctctt tcttctttct cctgccatcc   3780
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ttggccagct ttttgcttgg gaaaatctaa cttctttcac aaggaggcag gcttcctatg   4020
gatgttggag tacctgtttt tcctccacac atagcccttt tcatggatag accttgaaca   4080
acaaaaaggg tataagggaa taaggatgaa ctctgctgtg aagagcaagc cactgtagtg   4140
aggaatgtgg agactgggag tctgtcctaa accccatggg agaagacttc atcatgacag   4200
gacttcagct taccaaggca gccagccata gctgtgtgga ggcttcagca tagctagcat   4260
gtttactgct ctatgcctcc tgatccagac caggcattgc ccagcctggg aatcttttct   4320
ttgtgggaat caaattacaa gctatttaag tttatattcc atcacaacca agtcagactt   4380
```

5051

```
gtattataag tcaaggatga gcctgatctg gggagagggc cggggctcgg gactggccac   4440
cactgttcag cacatgacct aactacgtaa gcctctttgg caagggtcct ggtgcccagc   4500
acccaggcta aaatatcctg tctggcagag tgttttggta gctatgcagg cctcccttca   4560
gtgtacctct ttttccaact tctcactcct ccttactagg cttggccttg acatgcttct   4620
tcgagggttg gcagcacacc gggaggggat gcttggacaa gtttctgggc ctacatttct   4680
tgactaggcc ctctcatttc ctccctcctt ggggcttctg cccagggctc caggatcagg   4740
gatattactt ctcaacccgc acttctcctc tactgaaccc actggcatca cctgatgcca   4800
ctaatttgtg aacaacaaga aatcatttcc ccattggttg gagtattccc tcagcctata   4860
gcatcaaagc agaccagtgg ccaacagccc caggggagc ccaattaaat acctgggttc    4920
agtatcctaa cctgttatgt cctgacagca atggtaaccc cagtaattct gtaatgttgt   4980
aatttccgca tggccctgag ctcccttttc ctcaactcag tgaggccagg atttgctctc   5040
caaaaggctt tgctagtgtg ttcaatggga cctgctgtgg ggagtcctaa gacagacatc   5100
taattattct ctctttttcc cccctctct atgtgtatat ttctaatgga tctataagaa    5160
cagcaacaag agagttctaa caattctagt gtgaagccaa atagtgatct tttagtgctt   5220
tggggatggg gtgggctggg gtggatggat gggcaacagt gactttgatt accccttgctg   5280
ctctgcattt gccagtttat tcttttgttt cttttatctg actgactctg tcaaacaagt   5340
gtcaaagttg tgtgttaaaa aatgtttaac aaaaaaaatg ttgtaatgac acaaagcctt   5400
atgaaaatat ttatggagtt caataaaaga agtaaaaaga caaaaaaaaa a            5451
```

<210> 6423
<211> 3501
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (55)...(3359)
<223> similar to gi3882281 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6423
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acggtggaat tctcgacggg agggtgaggc gcggcgcagt gatcgggcgg ccggggtcct     60
gtgcgcgtgc gcagcgaaca gctgtcacct agtgcggaac aagtctccca aatttcccaa    120
atctccctgg gccggaggcc actgtcttct cttcctcctc caccgagtcg tgctctcgcc    180
ccaacccgcg cgccagacac tgccctaacc atcatggagg tggccgaggt ggaaagtcct    240
ctgaacccca gctgtaagat aatgaccttc agaccctcca tggaggagtt ccgggagttc    300
aacaaatacc ttgcatacat ggagtctaaa ggagcccatc gtgcgggtct tgcaaaggtg    360
attcctccta aggagtggaa gccaagacag tgctatgatg acattgataa tttgctcatt    420
ccagcaccaa ttcagcagat ggtcacaggg cagtcaggac tgttcactca gtacaacatc    480
cagaaaaaag cgatgactgt gaaggagttc aggcagctgg ccaacagtgg caaatattgt    540
actccaagat acttggatta cgaagatttg gagcgcaagt actggaagaa cttaactttt    600
gtggcaccta tctatggtgc agatattaat gggagcatat atgatgaggg tgtggatgaa    660
tggaacatag ctcgcctcaa tacagtcttg gatgtggttg aagaagagtg tggcatttct    720
attgagggtg taaataccc atatctctat tttggcatgt ggaagaccac gtttgcatgg    780
cacaccgaag acatggacct ctatagcatt aattatctcc actttggaga gcccaagtct    840
tggtatgcta tacctccgga gcatggaaaa cgacttgaaa gactagctca aggttttttc    900
ccaagcagct cccaagggtg tgatgcattt cttcgccaca agatgacatt gatttctcca    960
tcagtattga agaaatatgg tattcccttt gacaagataa cccaggaggc tggagaattc   1020
atgatcactt tcccatgg ctaccatgct ggttttaatc atggtttcaa ctgtgcagaa     1080
tctacaaatt ttgctactgt cagatggatt gactatggaa aagttgccaa attgtgcact   1140
```

```
tgcaggaaag acatggtgaa gatttcaatg gatatctttg tgaggaaatt tcagccagac  1200
agatatcagc tttggaaaca aggaaaggat atatacacca ttgatcacac gaagcctact  1260
ccagcatcca cccctgaagt aaaagcatgg ctgcagagga ggaggaaagt aagaaaagca  1320
tcccgaagct tccagtgtgc taggtctacc tctaaaaggc ctaaggctga tgaggaagag  1380
gaagtgtcag atgaagtcga tggggcagag gtccctaacc ccgactcagt cacagatgac  1440
ctcaaggtca gtgaaaagtc agaagcagca gtgaagctga ggaacacaga agcatcttca  1500
gaagaagagt catctgctag caggatgcag gtggagcaga atttatcaga tcatatcaaa  1560
ctctcaggaa acagctgctt aagtacatct gtaacagaag acataaaaac tgaggatgac  1620
aaagcttatg catatagaag tgtaccttct atatccagtg aggctgatga ttccattcca  1680
ttgtctactg gctatgagaa gcccgagaaa tcagacccat ccgagctttc atggccaaag  1740
tcacctgagt catgctcatc agtggcagag agtaatggtg tgttaacaga gggagaagag  1800
agtgatgtgg agagccatgg gaatggcctt gaacctgggg aaatcccagc ggtccccagt  1860
ggagagagaa atagcttcaa agtccccagt atagcagagg gagagaacaa aacctctaag  1920
agttggcgcc atccacttag caggcctcca gcaagatctc cgatgactct tgtgaagcag  1980
caggcgccaa gtgatgaaga attgcctgag gttctgtcca ttgaggagga agtggaagaa  2040
acagagtctt gggcgaaacc tctcatccac ctttggcaga cgaagccccc taacttcgca  2100
gctgagcaag agtataatgc aacagtggcc aggatgaagc cacactgtgc catctgcact  2160
ctgctcatgc cgtaccacaa gccagatagc agcaatgaag aaaatgatgc tagatgggag  2220
acaaaattag atgaagtcgt tacatcggag ggaaagacta agcccctcat accagagatg  2280
tgtttttattt atagtgaaga aaatatagaa tattctccac ccaatgcctt ccttgaagag  2340
gatggaacaa gtctccttat ttcctgtgca aagtgctgcg tacgggttca tgcaagttgt  2400
tatggtattc cttctcatga gatctgtgat ggatggctgt gtgcccggtg caaaagaaat  2460
gcgtggacag cagaatgctg tctctgcaat ttgagaggag gtgctcttaa gcaaacgaag  2520
aacaataagt gggcccatgt catgtgcgcc gttgcggtcc cagaagttcg attcactaat  2580
gtcccagaaa ggacacaaat agatgtaggc agaatacctt tacagaggtt aaaattgaaa  2640
tgcatcttct gcagacaccg ggttaagagg gtctctggag cctgcatcca gtgttcctac  2700
ggtcgctgcc cggcctcctt ccatgtcact tgtgcccatg ctgctggggt actgattgga  2760
gcctgatgat tggccttatg tggtgaacat tacatgcttt cgacataagg tcaaccccaa  2820
cgtgaagtcc aaggcttgcg agaaggtcat ttccgtgggt caaacggtca tcacgaagca  2880
tcggaacacc cggtattaca gttgcagagt gatggctgtg acatcgcaga ccttctatga  2940
ggtcatgttt gatgatggct ccttagcag agacacattt cctgaggata tcgtgagccg  3000
agactgtctg aagctgggcc cacctgctga gggagaagtc gtccaagtca agtggcccga  3060
tggcaaactc tatggagcaa aatattttgg atcaaatatt gcccacatgt accaggttga  3120
gtttgaagat ggatcccaga tagcaatgaa gagagaggac atctacactt tagatgaaga  3180
gttacccaag agagtgaaag ctcgatttgt aagtgctggc agatgccact gggggacctg  3240
ccaagtgaat tccttgtcct cacctcatgt ttcccaagcc cagcaggaaa catacttggg  3300
cttttggatt aattctaaaa aaagccaatg caacattttc cttagtggaa cctattgaat  3360
gcacacttca aattcaacca aaatcgggga aattaatgca tgtgctttac ttttcttcta  3420
atgaagtcac atgatgcttc tttgtgttga catttattgg tgcacaaaaa tacttactga  3480
atgtgtgctc tgtgtaaaac a                                           3501
```

<210> 6424
<211> 1366
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (292)...(1098)
<223> similar to gi2276368 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6424
```
tggggcagag gttgggaaga tggcgtggcg aggctgggcg cagagaggct ggggctgcgg      60
ccaggcgtgg ggtgcgtcgg tgggcggccg cagctgcgag gagctcactg cggtcctaac     120
cccgccgcag ctcctcggac gcaggtttaa cttctttatt caacaaaaat gcggattcag     180
aaaagcaccc aggaaggttg aacctcgaag atcagaccca gggacaagtg gtgaagcata     240
caagagaagt gctttgattc ctcctgtgga agaaacagtc ttttatcctt ctccctatcc     300
tataaggagt ctcataaaac ctttattttt tactgttggg tttacaggct gtgcatttgg     360
atcagctgct atttggcaat atgaatcact gaaatccagg gtccagagtt attttgatgg     420
tataaaagct gattggttgg atagcataag accacaaaaa gaaggagact tcagaaagga     480
gattaacaag tggtggaata acctaagtga tggccagcgg actgtgacag gtattatagc     540
tgcaaatgtc cttgtattct gtttatggag agtaccttct ctgcagcgga caatgatcag     600
atatttcaca tcgaatccag cctcaaaggt cctttgttct ccaatgttgc tgtcaacatt     660
cagtcacttc tccttatttc acatggcagc aaatatgtat gttttgtgga gcttctcttc     720
cagcatagtg aacattctgg gtcaagagca gttcatggca gtgtacctat ctgcaggtgt     780
tatttccaat tttgtcagtt acctgggtaa agttgccaca ggaagatatg gaccatcact     840
tggtgcatct ggtgccatca tgacagtcct cgcagctgtc tgcactaaga tcccagaagg     900
gaggcttgcc attattttcc ttccgatgtt cacgttcaca gcagggaatg ccctgaaagc     960
cattatcgcc atggatacag caggaatgat cctgggatgg aaattttttg atcatgcggc    1020
acatcttggg ggagctcttt ttggaatatg gtatgttact tacggtcatg aactgatttg    1080
gaagaacagg gagccgctag tgaaaatctg gcatgaaata aggactaatg gccccaaaaa    1140
aggaggtggc tctaagtaaa actgggattg gacagtagtg gtgcatctgg tccttgccgc    1200
ctgagagccc caggagacat cggctagagt gaccatggct atgctcccgt ctggaagatg    1260
ccagcatctg gcctcccact gttttcagct gtgtccccca gtccgtgtct ttttagaatg    1320
tgaatgatga taaagttgtg aaataaaagg tttctatcta gtttgt                   1366
```

<210> 6425
<211> 2122
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2123)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1797)...(594)
<223> similar to gi4680671 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6425
```
gtcttgctgt cacccagact ggagtgcagt ggcatgatca tagctcactg cagactcaaa      60
ctcccggact caagcaatcc actcacctca gcctcctaac tgggactaca ggtgcacacc     120
accatgctca gataattttt taactttttg tagagaaagg gtctcactat gttccccagg     180
ctggtctcaa gcgatcctcc catctcagtc tcccaaagtg ctgggattac aggcatgagc     240
caccactgtg cctggcctaa aaattttttg ttaaaaatgc tttccaccgg ccgggtgcag     300
tggctcatgc ctataatttt tttgtttttt cagaagatgg gaggcaacat ggtaggttca     360
```

```
caattaaaat tgtcttgaaa gtatttattg tttaataatt ctttctcccc tcagccccat    420
ccggccactc tctctttctg cttttctgat catcctaaag gctgaataca tcctcctcat    480
gtgtggagga cacgaagcaa tactaaaatc aatacactcg atcaggtctt catcagatac    540
cacgtcactg tggggtagag tgctagtttt caacaaatgg tgggtgttct tatgggctcc    600
acaaggtagt cctttctcaa ggtcgctggg gccactcatg gagttgaaat gccgctgccc    660
atctaagtac aacatggact ctccatatgt ttttgggaaa accagtggca cttctttttc    720
cgacatgaac gtgaaatgaa agacattggt ggttgtatgc tgcttctcct gcagggaggc    780
cacttcactg tgtactctga cttgaatata attattctga gtaaagcata cctgtgaaga    840
aagaaagagc aatgagccaa cctcaacagg tttctgaaac atgatgtcat ctactgctac    900
cacaaacggt cgagaaccac caaagctaca agcagtagcc cacgcaagtt catatgcctt    960
cctcataagg aaaccaccaa agatccgatt gaaaatgttc cgctcctgag ggtggcaaat   1020
ttccaaactc ttcagttttg aattctccat ccacactgca ttagagggta aaactcgact   1080
ccgaaaactt atagtctttg gatccagtgt gctgagaaac atctcatgta tggtggtcct   1140
ctcctcagcg ctggggggcca tttttcagtaa cgacgtggag ctgaaggcaa ttcttctccc   1200
cttgttcaat tcccctttgtc taaagagctc ctcttcctct gggctttcag ggatgagtgg   1260
atttacaaat gccggccctt tattttcaga atcacgagcc accattacaa atgttgcatc   1320
caaaacagga caaaattcat caccatgtaa ctggaacatt tgcatcttca cttccatgga   1380
tgtcttcccg acccagctaa catggccact gaacttaatg tcctgttctg ggctcaagct   1440
cttcttacac atatcaatct tatccaccag ggctgtaact atcgataaag gagacatctt   1500
ggcggagtgg attttgttgt gcatgtaaca aataagaact cccaagctgt caagatcctc   1560
aagaatcctg ccaaatctta cggtgttttg aacagtcaaa tatttctctt gtaattcagg   1620
ctcactgccc aaaggcaaga gaacttcaat ataactgtcc ttcattctcc taggaggcag   1680
tccatcctgt gatttagcca agaaactatg aagtaatttc ctttcttcca ttgccttcac   1740
atggtctctc cagtttgtgg atgctcctac tatctcccgc aacttatctc gaacttcatg   1800
aatgtggaag attccctgtt tcttggggtt ctgggtcct tgagtcagtc ctcttccagg   1860
agtaagctgc cctttgccca aggcacaaag ccgcagtgct gcccgcctca ttgcgctagg   1920
ctgccgtgcg cgcgatggag aaccgggccc cgcgcgctag tcggcggagg gaaactgagg   1980
cgataaaaga cgcacgagta ccagaccgcg cccttgctga ggacagcccg ggagccggac   2040
agcggcccgg ctcgagcggc cgctcgagcc gggaattcca ccgcnctcct ataatggtct   2100
tctatggggg ggggggggg cg                                            2122
```


        <210> 6426
        <211> 2036
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2037)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (94)...(854)
        <223> similar to gi4104961 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6426
```
ttcgtggcgc gcctgaagga gcaggaaggg gaaggaggcc tgggaccccg aaaagagaag     60
gggagagcga ggggacgaga gcggaggagg aagatgcaac tgactcgctg ctgcttcgtg    120
```

```
ttcctggtgc agggtagcct ctatctggtc atctgtggcc aggatgatgg tcctcccggc      180
tcagaggacc ctgagcgtga tgaccacgag ggccagcccc ggccccgggt gcctcggaag      240
cggggccaca tctcacctaa gtcccgcccc atggccaatt ccactctcct agggctgctg      300
gccccgcctg gggaggcttg gggcattctt gggcagcccc ccaaccgccc gaaccacagc      360
cccccaccct cagccaaggt gaagaaaatc tttggctggg gcgacttcta ctccaacatc      420
aagacggtgg ccctgaacct gctcgtcaca gggaagattg tggaccatgg caatgggacc      480
ttcagcgtcc acttccaaca caatgccaca ggccagggaa acatctccat cagcctcgtg      540
cccccccagta aagctgtaga gttccaccag gaacagcaga tcttcatcga agccaaggcc      600
tccaaaatct tcaactgccc ggatggagtg ggagaaggta gaaccggggc cgccggacct      660
cgcttttcac ccacgaccca gccaagatct gctcccgaga ccacgctcag agctcagcca      720
cctggagctg ctcccagccc ttcaaagtcg tctgtgtcta catcgccttc tacagcacgg      780
actatcggct ggtccagaag gtgtgcccag attacaacta ccatagtgat accccctact      840
acccatctgg gtgacccggg gcaggccaca gaggccaggc cagggctgga aggacaggcc      900
tgcccatgca ggagaccatc tggacaccgg gcagggaagg ggttgggcct caggcaggga      960
ggggggtgga gacgaggaga tgccaagtgg ggccagggcc aagtctcaag tggcagagaa     1020
agggtcccaa gtgctggtcc caacctgaag ctgtggagtg actagatcac aggagcactg     1080
gaggaggagt gggctctctg tgcagcctca cagggctttg ccacggagcc acagagagat     1140
gctgggtccc cgaggcctgt gggcaggccg atcagtgtgg ccccagatca agtcatggga     1200
ggaagctaag cccttggttc ttgccatcct gaggaaagat agcaacaggg aggggagat     1260
ttcatcagtg tggacagcct gtcaacttag gatggatggc tgagagggct tcctaggagc     1320
cagtcagcag ggtggggtgg ggccagagga gctctccagc cctgcctagt gggcgccctc     1380
agccccttgt cgtgtgctga gcatggcatg aggctgaagt ggcaaccctg gggtctttga     1440
tgtcttgaca gattgaccat ctgtctccag ccaggccacc cctttccaaa attccctctt     1500
ctgccaagta ctcccccttt accaccccat tgctgatggc acacccatcc ttaagcttaa     1560
gacaggacga ttgtggtcct tccccaacac taaagccaca agcccatccg cgtgcttgtg     1620
tgtcccttct ttccacccca acccctgctt ggctccttct gggagcatcc atgtcccgga     1680
gaggggtccc tcaacagtca gcctcacctg tcagaccggg gttctcccgg atctggatgg     1740
agccgccctc tcagcagcgg gcacgggtgg ggcggggccg ggccgcagag catgtgctgg     1800
atctgttctg tgtgtctgtc tgtgggtggg gggaggggag ggaagtcttg tgaaaccgct     1860
gattgctgac ttttgtgtga agaatcgtgt tcttggagca ggaaataaag cttgccccgg     1920
ggcactggag tcagagttgt ccaaggaaag ggcctcaggc atcccttggt ncaggaagaa     1980
tttctctgat ggccgcagac attttgcttg agacccaagt ggcagggatc caaccg         2036
```

<210> 6427
<211> 1689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (139)...(918)
<223> similar to gi1354475 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6427
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cacccgcttc cgtcagcctc actggggctt ccttccgtct cgctcggagt ttccctctgc       60
gttcgctccg cgctgctgga ggctgtcgtc ccaatgctcc ccaaacggcg gcgagcgcgg      120
gtcgggtccc ctagcggcga tgccgcttcc tccacgccgc cctcgacgcg cttcccggga      180
gtcgccatct acctggtcga gcctcgcatg ggtcgcagcc gccgggcctt cctcacaggc      240
ctggcgcgct ccaaaggctt ccgcgtcctt gacgcctgca gctccgaagc gacacatgtt      300
```

5056

```
gtgatggaag agacctcagc agaggaggcc gtcagctggc aggagcgcag gatggcagct      360
gctcccccgg gttgcacccc cccagctctg ctggacataa gctggttaac agagagcctg      420
ggagctgggc agcctgtacc tgtggagtgc cggcaccgcc tggaggtggc tgggccaagc      480
aaggggcctc tgagcccagc atggatgcct gcctatgcct gccagcgccc tacgcccctc      540
acacaccaca acactggcct ctccgaggct ctggagatac tggccgaggc agcaggcttt      600
gaaggcagtg agggccgcct cctcaccttc tgcagagcag cctcggtgct caaggccctt      ·660
cccagccctg tcacaaccct gagccagctg caggggcttc cccactttgg agaacactcc      720
tctagggttg tccaggagct gctggagcat ggagtgtgtg aggaggtgga gagagttcgg      780
cgctcagaga gctcttcacc cagatcttcg gggtcggtgt gaagactgct gaccggtggt      840
accgggaagg actgcgaacc ttagatgacc tccgagagca gccccagaaa ctaacccaac      900
agcagaaagc gggtgagccc tccagagagg ctgggccctg ggcttcccta aactgcaccc      960
tggatccctc agcatcaact ccctagaggg aagggagcag tctggtgcag agggtttggt     1020
ggcagctttg tgtggtgggc ttcctggggt ctccacccag tgcagtcagg atctatcaaa     1080
gccttttctc agtggacgat gctgaccaca gcaacttcca tgatatgcca ggggcttgtg     1140
tctgcctact ggttagactt tgaccagtga ccagggacag cctgggcctt gggcacactg     1200
cccagtgtgg tgcttggtac atggaggcct gcagaggtgg cactgagcag cagaaagaac     1260
atcagctttc aagtttgtta ggcctgggtt tgagtcttat ctaccatttg ccaggtaggt     1320
gaccattgcc caagaaataa cctctctgag tctgttacat tttctgtaaa atggagaagg     1380
aaggctgggc atggtgactc acacctgtaa tcccagcact ttgggaggtc aaggtgggta     1440
gatcgcttga gctcagcagt tcaagaccag tctgggcaac agggtgaaac cctgtctcta     1500
cgagaaatac aagagttagc caggcgtgat ggtggatgcc cgtagtacca ggctactcat     1560
gaggccgagg tacaaggatc gctcgagccc gggaggtcaa gccttgaggc caaggtggaa     1620
gttgcaatga gctgagattg agccactgca ctccagcctg agtgacagag caagacccta     1680
tctcaaaaa                                                             1689
```

<210> 6428
        <211> 4327
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (20)...(3651)
        <223> similar to gi3882241 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6428
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ccagcaggac ttcgagtctc tggcagacct gacggaccac cgggcccacc gctgtcctgg       60
agatggtgat gacgacccac aactctcctg ggtggcctcg tctccctcca gcaaggatgt      120
tgcgtcaccc acgcagatga tcggagatgg ttgtgacctc ggcctcggcg aggaggaagg      180
gggcacgggc ctgccatacc cttgccagtt ctgcgacaag tccttcatcc gcttgagcta      240
cttgaagagg cacgagcaga tccacagcga caagctgccg ttcaagtgca cctactgcag      300
ccgcctcttc aagcacaaga ggagccgtga ccggcacatc aagctgcata cgggcgacaa      360
gaagtatcac tgccacgagt gcgaggcagc cttctcccgc agcgaccacc tcaagatcca      420
cctgaagacc cacagctcca gcaagccctt caagtgcact gtgtgcaagc gcggcttctc      480
ctccaccagc tcgctgcaga gccacatgca ggcccacaaa aagaacaagg agcatctggc      540
caagtcggag aaggaagcca agaaggacga cttcatgtgc gactactgcg aggacacctt      600
cagccagacg gaggagctgg agaagcacgt gctcacccgc cacccgcagc tgtccgagaa      660
ggcggacctg cagtgcattc actgccctga ggtcttcgtc gacgagaaca cactgctcgc      720
ccatatccac caagcccacg ccaaccagaa acacaagtgc cccatgtgcc ctgagacagt      780
```

```
tctcctcagt ggtaaggtgt ctactgccac ctggacagcc accggcagcc cgactccagc    840
aaccacagtg tcagtcccga ccctgtactg ggcagcgtgg cctccatgag cagcgccaca    900
cccgactcca gcgcctctgt ggagcgtggc tccaccccgg actccacctt gaagccgctg    960
cggggggcaga agaagatgcg ggatgacggg cagggctgga ccaaggtggt ctatagctgc   1020
ccctattgtt ccaagcggga ctttaacagc ctggccgtgc tggagatcca cctgaagacc   1080
atccacgcgg acaagcccca gcagagccac acatgtcaga tctgcctgga ctccatgccc   1140
accctctaca acctcaacga gcacgttcgc aagctgcaca gaaccatgc ctaccctgtg    1200
atgcagtttg gcaacatctc tgccttccac tgcaactact gccccgagat gttcgccgac   1260
atcaatagcc tgcaggagca catccgcgtc tcccactgcg gccccaacgc caacccctct   1320
gacggtaata atgctttctt ctgcaaccag tgctccatgg gtttccttac tgagtcctcc   1380
ctcaccgagc acattcaggc agggcccact gcagtgtggg cagtgccaaa ctagagtctc   1440
cggtggtgca gcccacgcag tccttcatgg aggtctattc ctgcccctac tgcaccaact   1500
cccccatctt tggctccatc ctgaaactca ccaagcacat caaggagaac cacaagaaca   1560
ttccactggc ccacagcaag aagtccaagg ccgagcagag cccagtctcg tccgatgtgg   1620
aggtgtcttc cccgaagcgg cagcggctct cagcaagcgc caactccatc tccaatgggg   1680
agtatccttg caatcaatgc gacctcaagt tctccaactt tgagagcttc cagacccacc   1740
tgaagctgca cctggagctg ctgctgcgga agcaagcgtg cccccagtgc aaagaggact   1800
ttgactccca ggagtccctc ctgcagcacc tgacagtgca ttacatgacc acgtcgaccc   1860
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cctgctggac atgccacacc ctttgtgttg tacccactgc accctgtgt caggaggtct    1980
tcgactccca aggtgtccat cccaggtgca cctggcggtg aagcacagca atgagaagaa   2040
gatgtaccgc tgcacggcct gcaactggga cttccgcaag gaggctgacc tgcaggtgca   2100
cgtcaaacac agccacctgg gcaacccggc caaggctcac aagtgcatct tctgtgggga   2160
gaccttcagc accgaggtgg agctgcagtg ccacatcacc acacacagca agaagtataa   2220
ctgtaagttc tgcagcaagg ccttccacgc catcatcctg ctggagaagc acctgcggga   2280
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ggccaccaag aaagctgagc ctgctgacct gcagggcatg ctgcttaaga accctgaggc   2400
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cagtcacaag tgcaacgttt gttcacggac tttcttctcg gagaacgggc tacgggagca   2640
cctgcagacg caccggggcc ctgccaagca ctacatgtgt cccatctgtg gtgagcgctt   2700
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cacctgtcgc atctgcaaga tgcccctgca gagcgaggag gagtttattg agcactgcca   2820
gatgcaccct gacctgcgca actcactcac gggcttccgc tgtgtggtct gcatgcagac   2880
agtcacttcc acgcttgagc tcaagatcca tggcaccttc cacatgcaga agctggcggg   2940
cagctcagcg gcgtcctccc ccaatggcca ggggctgcag aagctctaca gtgcgccct    3000
gtgcctcaag gagttccgca gcaagcagga cctggtgaag cttgacgtca atgggctgcc   3060
ctacggcctc tgcgccggct gcatggcccg cagcgccaac ggacaggtgg gtggcctggc   3120
cccgcccgag cccgccgacc ggccctgtgc cggcctccgt tgccccgagt gcagtgtcaa   3180
gtttgagagt gccgaagacc tggagagcca catgcaggtg gaccaccgtg acctcacgcc   3240
ggagaccagt gggccccgga aaggcaccca gacatcgcca gtgccccgga aaaagacata   3300
ccagtgcatc aagtgccaga tgaccttcga gaacgagaga gagatccaaa tccacgttgc   3360
caaccacatg attgaggaag gcatcaacca cgagtgtaag ctgtgcaacc agatgttcga   3420
ctccccggcc aagctcctct gtcacctcat tgagcacagc ttcgagggca tgggcggcac   3480
cttcaaatgc cccgtgtgtt tcacagtctt cgtccaggcc aacaagttgc agcagcacat   3540
ctttgccgtg cacgggcagg aggacaagat ctacgactgc tcacagtgcc ctcagaagtt   3600
cttcttccag accgagctgc agaaccacac gatgagccag cacgcacagt gagggatcgc   3660
tcaacaggac acctctccgc agaaggcttg ccggagacgc cgtggggagg gccatttgaa   3720
cattacatcc aatcaaagtg tcatttgcaa cccagatgta aaactctaat gatttggcca   3780
tgaggcgctg ctattataag cagctggaaa tgaatattaa tggcagagat taaaagtatt   3840
ccatgctcag tattttttat tgtcctgcta cagctagtgt gcttttagac tttccgccgc   3900
agactacatt tctagagtta gagaaacctg cttttttaagg ctattgtcct ttgttccttc   3960
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tttctctttc ttgtttttct tcccccccac cccccaccc ccttcggtta actactttt     4080
aattgcaatt ctaggtaatt gtgcatcgtg atgtgattgc ttggctattg tctgaatatt   4140
tcctttttaat tttttaatta aagactaatg ctttgattgg atttgccagt tcaccggaca   4200
```

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gtgattaaaa ctatgtaatg aatataatcg gtttcagtgc aactggatgg tctgctttta    4260
aatgtgactt aatctgactg cagtaactag tacagttcaa taaagggaat ccatgcgaaa    4320
aaaaaaa                                                               4327




        <210> 6429
        <211> 2143
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1975)...(202)
        <223> similar to gi791004 in the genepept database release 114,
        · Run with FASTXY 3.3t00, default parameters




        <400> 6429
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accaccatgg ccagctggtt tgtttcaatt tgagtgacaa aatttaggaa tcggggctcc     180
agcttttcac tgcagacatt tattgtgggt catcttccct aaggcaccag cagaggggga     240
acgggccaca gcagggctgc agccacggtc tccagatatt gcccagcctg tccagctgca     300
gaggaactgg gctgagtgtc cgctggtgtt cccacaccgc ctgctggact tcgttccatc     360
acctgataga aaacgggctc tgaggctggt gtgaggatgt gggtctcaga agggtctctt     420
gagaggtcaa agagcaaagg tggatcgtgg tggactactt tttccccaaa gcacgggcag     480
acctttcttc catagcaggc accggctccc tctggctgga acacaggcgt cacaaagtgg     540
actttccaca ttgttcctct gtcccgttga tgccacctgg ctgcgtgcag aaacctctca     600
caataatgca tcaggaactc gtggtctgag·tgttgggctg tccccaggag caagggcaga     660
aggtcttggc cgtcaatcac tctgtcctgg ggcacctcgc tgcccgccag ccggaccacg     720
gtggggaaca ·cgtccatcag actcgtgggc tcgccaatca ctcggccggc cgggagcacc     780
ccgggccagc ggaagatccc gggcacgcgg atcccacctt cccatcctcc catgcccttc     840
ccacctttat aaattccatt ccagccacca tactgggtgt ttccaagttg attctctagg     900
gaaccgccgt gatccgacgt aaaataaatg agggtgctgt tgctcaaacc ctccacgtcc     960
aaagtgtcaa ggatccgtcc taccatccag tccatctcct ttacgttgtc cccatacagc    1020
ccgtggagac tcttcccgag gaagttctcc atagtgataa gagggatgtg aacgtgtaga    1080
aaggaaacaa agaggaggaa aggcccatgc ttattccttt tgagaaagga cgcaacctcc    1140
tgcagaataa ggggtgtcgt tctttggaag cacatgggct gctccgtgat ggtgtggttt    1200
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aggaggacgg ccgaaagggc tgaccagatg accggcatcc acgagacggg tatcaggtgt    1320
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agttttttgtt ccaggttgac acgcttctct gagagttccc agcgggcgca atcacccatc    1440
aaggagaaag gcattccgta gaaatggtca aagccatgat ggagagggtg gtggcaatga    1500
tcactggctg actcacagtt gagacccaga tgccatttttc caatgagtcc agtggcatag    1560
cctttctctt ccagtatttt tgcaaaagtt· gtctcatttg ttggaagacc tccagatgct    1620
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gtcagcttca cgccgtcctc tgcaaggcgg tcaatattcg gagtcctcat ggtgttgttg    1800
ccatagcagc caatgtcccc aatgccaagg tcgtccgcca tcagaagaag gatgttcggt    1860
cgggaggcgg aaatgtcgct ggaagctgat ggtgccaaac ttagcagtac agcgagcatc    1920
gctggcagcc agctcctgaa acacaaacaa gaatggtgca gatgtaacat gttgtctctc.    1980
tctctacttc ctctgctcct gggctccttc ctgaatcccc gatcaagaag aggaaggttc   _2040
```

```
tctcccaaag gaagcaagcg tgaaggcaga gagcacttgc acaaggcttt gagctgggaa      2100
tgattaactt cgagtttgtt tttccctacg atttcgtacg aaa                         2143




        <210> 6430
        <211> 1331
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (110)...(1331)
        <223> similar to gi5457352 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters




        <400> 6430
tttcgtaagg gagagagaga gggggactct gtgtgaggga aagaaaacaa tgtctcctgc        60
tctgcagctt ctgttcagga tcaatgtgac tctaagaaca aatggatgaa tgaatatcca       120
tatgaagaga aaaacaataa agaatatcaa cacctttgag aacagaatgt taatgcttga       180
tgggatgccg gcagtcagag tcaaaacaga gcttttggaa tctgaacaag ggtctccaaa       240
cgtccacaac tatcccgata tggaagccgt tcccctgttg ctaaataatg tgaaagggga       300
gcccccggag gactcgttat ctgtagatca cttccaaaca caaactgagc cagtggactt       360
gtcaataaac aaagccagga cgtcccctac tgccgtttca tcctcccag tttccatgac        420
agcatctgcc tcctcacctt cttcaacttc aacctcttca tcgtcttcta gtcgtctagc       480
ctcatcccca actgttatca catcagtatc ttcagcgtca tcttcgtcaa cagtattaac       540
tccagggccc cttgtggcct ctgcatctgg tgttggaggc cagcagtttt tgcacattat       600
ccatcccgta ccgccttcaa gtcccatgaa tttacagtct aacaaactga gtcatgttca       660
ccgcatcccc gtggtggtac agtcggtgcc tgttgtctac acagctgtaa ggtcacctgg       720
aaatgtgaac aacactattg tcgtgccgct tttggaggat gggagaggcc atggcaaagc       780
acaaatggac ccccgaggcc tatctcccag acaaagtaaa agtgacagtg atgatgatga       840
cctgccaaat gtgaccttag atagcgttaa tgaaactgga tctacggccc tttccatagc       900
cagagcagta caagaggtac atccgtcccc agtatcaagg gtccggggca atcgaatgaa       960
taatcaaaag tttccttgtt caatttcacc atttagtatt gagagcacaa gacgccagag      1020
gacggtcttg aatcccccag actccaggaa aacggcgtat tccacagatt gtgattttgg      1080
agggattgca acaaaagttg tacacaaaaa gttcttcacc tggaagggtt caccggagga      1140
cacatacagg agagaaacct tacaagtgta cctgggaagg ctgcacctgg aagttcgctc      1200
gttcagatga actgacgagg cattaccgca aacatacggg agtgaagcca ttcaagtgcg      1260
cggactgtga tcgcagcttt tcccggtcag atcatttggc cctgcaccgc cggaggcata      1320
tgttggtgtg a                                                           1331




        <210> 6431
        <211> 2878
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
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<400> 6431

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gtccgctttc agtgtatggt tttccctgcc aaacggttct gcttggtgcc atccatggag     180
ggcgtgcgct gggccttttc ctgcggcact tggctgccga gccgagccga atggctgctg     240
gcagtgcgat cgattcagcc cgaggagaag gagcgcattg gccagttcgt ctttgcccgg     300
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aatatccctt ggaatcatat tcgtttgcaa agaactgcaa aaggaaaacc agttcttgca     420
aaggactcat cgaatcctta cccgaatttc aactttaaca tctctcatca aggagactat     480
gcagtgcttg ctgctgaacc tgagctgcaa gttggaattg atataatgaa gactagtttt     540
ccaggtcgtg gttcaattcc agaattcttt catattatga aaagaaagtt taccaacaaa    600
gaatgggaaa caatcagaag cttttaaggat gagtggactc agctggatat gtttttatagg  660
aattgggcac ttaaggaaag cttcataaaa gccattggtg ttggactagg atttgaattg     720
cagcggcttg aatttgatct atctccatta aacttggata taggccaagt ttataaagaa     780
acacgtttat tcctggatgg agaggaagaa aaagaatggg catttgagga aagcaaaata     840
gatgagcacc attttgttgc agttgctctt aggaaacccg atggatctag acatcaggat     900
gttccatctc aggatgattc caaaccaacc cagaggcaat ttactattct caactttaat     960
gatttaatgt catctgccgt tcccatgaca cctgaagatc cttcattttg ggactgtttt    1020
tgcttcacag aagaaattcc aatacgaaat ggtacaaagt catgatgatt ccctgagtaa    1080
caaagggaaa tgaaaactgt ttgtgatctt ccgtattcac tgaaaaataa atgcttgttt    1140
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aaaaaagcag acttctggtt caagatagct cactggaata catgtttacc ttttttctttc   1260
ctaaattgca ttgaattgat aggaaggatg gcggaatctt aaagtgatac atgctaactg    1320
tagaaaaaaa tagaaaatgc acataagcaa aaggaaacat ttaaatgcta tctttcaaag    1380
ataactactc ttaaaacctt gagtatcttt tcagaccttt ttcttggcaa atgaatccat    1440
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tcaaaggcag aaaaggccat ttcgtctctc atttgtttta tccatgagga agattttttaa   1860
caaaagcctc cagaagattt cccctcagtt tccattgact tagatcaggt tacagagaaa    1920
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aagctaggtg tgaagaatgg aattggaagc ccactgcctt cccataagaa aggtttacca    2040
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cagtggcaga gtgaatgtcc ttgtacattt tgagttacat gcttaattat gtccttgaga    2160
aagtttctaa aagtggaatg attggtttga ctggttcata gggctttaat tatacaattt    2220
acccctctaa ttagtactat atgtatgtga cttccctccc cctgccagaa tactccttgg    2280
tcaattgtag gtattctttt tggtttaatt tttgccaatg taattaaaaa atggtatgtc    2340
atttttaaaa tttgtatttc tttcattaca aataagattg ttatgtcagt attgttattg    2400
gctttttcgta ttcctcttaa cgtgaaccgt ctgttcattg tttttacctg tttttcgtttt  2460
agcaagtagt acttaattta aagtgtgaac ttaatatata agatgccagg accatcatat    2520
tgatgacaaa aatctattat gtggttgtag tgcatgtctt ggagttaaac tcttaagtat    2580
caagaagtaa aataatttca ttgtttctgt tactaacatt aaaagtgtgc aaattgtata    2640
aaattaggta cttcgattag taaaagaaaa aaatttgaat gttttttttt tttattttat    2700
taagcatgcc cagttatgcc aagcatagta aataaaggtc aagtagcatt tataataaag    2760
gaagtattgt tatccctagc atgagtgtaa tggtgatatg aaaaactttg tcttgtcatt    2820
ataataataa aaaaatgaac atttattatg gaattttaaa aaaaaagaa aaaaaaa       2878
```

<210> 6432
<211> 1376
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (257)...(1050)
<223> similar to gi5881842 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6432
gcgcttgcaa ctccacctca gcaggggtct ctcagtcctc ttaaagcaag gaaagagtac   60
tgtgtgctga gagaccatgg caaagaatgg tccagagaat tgtgaagact gtcacattct   120
aaatgcagaa gcttttaaat ccaagaaaat atgtaaatca cttaagattt gtggactggt   180
gtttggtatc ctggccctaa ctctaattgt cctgtttttgg gggagcaagc acttctggcc   240
ggaggtaccc aaaaaagcct atgacatgga gcacactttc tacagcaatg gagagaagaa   300
gaagatttac atggaaattg atcctgtgac cagaactgaa atattcagaa gcggaaatgg   360
cactgatgaa acattggaag tacacgactt taaaaacgga tacactggca tctacttcgt   420
gggtcttcaa aaatgttttta tcaaaactca gattaaagtg attcctgaat tttctgaacc   480
agaagaggaa atagatgaga atgaagaaat taccacaact ttctttgaac agtcagtgat   540
ttgggtccca gcagaaaagc ctattgaaaa ccgagatttt cttaaaaatt ccaaaattct   600
ggagatttgt gataacgtga ccatgtattg ggatcaatcc cactcttaat atcaggaaca   660
tttgcaaagc agttgcatca caactttgca tttattatct tagtttctga gttacaagac   720
tttgaggagg agggagaaga tcttcacttt cctgccaacg aaaaaaaagg gattgaacaa   780
aatgaacagt gggtggtccc tcaagtgaaa gtagagaaga cccgtcacgc cagacaagca   840
agtgaggaag aacttccaat aaatgactat actgaaaatg gaatagaatt tgatcccatg   900
ctggatgaga gaggttattg ttgtatttac tgccgtcgag gcaaccgcta ttgccgccgc   960
gtctgtgaac ctttactagg ctactaccca tatccatact gctaccaagg aggacgagtc   1020
atctgtcgtg tcatcatgcc ttgtaactgg tgggtggccc gcatgctggg gagggtctaa   1080
taggaggttt gagctcaaat gcttaaactg ctggcaacat ataataaatg catgctattc   1140
aatgaatttc tgcctatgag gcatctggcc cctggtagcc agctctccag aattacttgt   1200
aggtaattcc tctcttcatg ttctaataaa cttctacatt atcaccaaca gcctgattgc   1260
tgctgaacac actgggtaag tgtttgctga gaatattcac agcaactgaa atggagcaga   1320
cccgtcaaac atagatgact atgctgaggc tcagaaaaca atgccccaaa atgaaa   1376

<210> 6433
<211> 1623
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1624)
<223> n = a,t,c or g

5062

<220>
<221> misc_feature
<222> (1432)...(812)
<223> similar to gi2982311 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

    <400> 6433
tgcgaccgcc gcagtcaagg gcgacttgtg gttggagtga gcaggctcct ggcttccagg   60
gcagcaaaaa cccccaagca ctttctagaa agaatgtgtt tcattctgac tgtaaacaca   120
tttgtaaatg ctgagaccaa accccgactt atggatcctg agccacggcc gtcactggcc   180
ccgctaagcc tcatcaccac acggccaggc cagaccagca cccgcggacg ccagctccac   240
ccctgggccc cgaggttccc acccgctgag gagccgggag ctccgaggaa acgcgccagg   300
gagctccaaa gaacgcagga gcagcccgcg gttcggcagc aagttttgca tttcttaagg   360
tgaccacatc taataaaatg aaaaacgggt ttactaaaac aggtccaaag acaacacgga   420
agataagcta caaatccagc acacaaggcc cacccacacc agccccagcg gcccgtggcc   480
aggacagggc tgaggctcca gtctcctcca aagcccagtc acacattttg gttttttgctt   540
cccctttcag gtttttaaaa gctaaaccta ggagcctggt gggtctgcct gtgctgggca   600
gtgtgtccag cctgccgagg tcacgctctg gtgcgcggtg ccctcagtgg cgccttgggt   660
ctcggcgcct gggcctcact cctgcgcgat gctcctcagc acgtacttga ccgtgtaagc   720
aaaggctgca aacccaacta tcacaaacaa gttcgccagg gcgccaccca ggagtccgtg   780
gtgccggttg gcctgctgga gccctgcgag gtttgggacg gcccccggcg catgcccgtt   840
gagcagctga atcccgttct ggacgaggtg cgtctccccg tctggaacca cgtctggcaa   900
ggggagagtc tggggtctgc tactgagttc gtcttgtgct ttctgttttt gtttaatctc   960
ctccacgact tcaggaaata attcacaaaa gactttatct ttcaaattaa atgctaaact   1020
ctgcactgcc agttgtcttt tcgtgaagtc cgacgtctct atactgccca gggtggggcc   1080
cttctccacc atgaagctca ggagcccagt caggatggtg gagacagacc aggccgggtt   1140
ccacgtgtcc gggtggaaat ccgtgataga aagacacagc ctggtgttgc acttaaacct   1200
cccgttggga gtgatcatat agatactggg aggtttgaaa ggaaattctc tgggaaaaat   1260
tagttttcca tgataatagc caccttcata aggggtcatc tctgggcctc ggacgacata   1320
gtgccactcg agaatattcg aagggagggg ctcggcacag atgtaaggca ccgggtcttt   1380
cttaatgcga aggtagtcct gcttcagcct ctgggttgcc gtggtcggag ccctcttact   1440
gctggtgctg ctcatctctc cctgtcgctg cgcgtgggcc gccgccgcgc tcaggctcgc   1500
cgtagtcgag gccggagcag ggtgcggaaa agcggggccc gcgcccgaaa cagccgcacc   1560
gccccgggat tgggcgaatt ccaccgcact gactaaggac tacatatnnn nnnnnacctc   1620
tct   1623

    <210> 6434
    <211> 1891
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (178)...(1397)
    <223> similar to gi5231137 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

<400> 6434
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tgcaggaatt cggcacgagg ctgagcggat cctcacacga ctgtgatccg attctttcca      60
gcggcttctg caaccaagcg ggtcttaccc ccggtcctcc gcgtctccag tcctcgcacc     120
tggaacccca acgtccccga gagtccccga atccccgctc ccaggctacc taagaggatg     180
agcggtgctc cgacggccgg ggcagccctg atgctctgcg ccgccaccgc cgtgctactg     240
agcgctcagg gcggacccgt gcagtccaag tcgccgcgct ttgcgtcctg ggacgagatg     300
aatgtcctgg cgcacggact cctgcagctc ggccaggggc tgcgcgaaca cgcggagcgc     360
acccgcagtc agctgagcgc gctggagcgg cgcctgagcg cgtgcgggtc cgcctgtcag     420
ggaaccgagg ggtccaccga cctcccgtta gcccctgaga gccgggtgga ccctgaggtc     480
cttcacagcc tgcagacaca actcaaggct cagaacagca ggatccagca actcttccac     540
aaggtggccc agcagcagcg gcacctggag aagcagcacc tgcgaattca gcatctgcaa     600
agccagtttg gcctcctgga ccacaagcac ctagaccatg aggtggccaa gcctgcccga     660
agaaagaggc tgcccgagat ggcccagcca gttgacccgg ctcacaatgt cagccgcctg     720
caccggctgc ccagggattg ccaggagctg ttccaggttg gggagaggca gagtggacta     780
tttgaaatcc agcctcaggg gtctccgcca tttttggtga actgcaagat gacctcagat     840
ggaggctgga cagtaattca gaggcgccac gatggctcag tggacttcaa ccggccctgg     900
gaagcctaca aggcggggtt tggggatccc cacggcgagt tctggctggg tctggagaag     960
gtgcatagca tcacggggga ccgcaacagc cgcctggccg tgcagctgcg ggactgggat    1020
ggcaacgccg agttgctgca gttctccgtg cacctgggtg gcgaggacac ggcctatagc    1080
ctgcagctca ctgcacccgt ggccggccag ctgggcgcca ccaccgtccc acccagcggc    1140
ctctccgtac ccttctccac ttgggaccag gatcacgacc tccgcaggga caagaactgc    1200
gccaagagcc tctctggagg ctggtggttt ggcacctgca gccattccaa cctcaacggc    1260
cagtacttcc gctccatccc acagcagcgg cagaagctta agaagggaat cttctggaag    1320
acctggcggg gccgctacta cccgctgcag gccaccacca tgttgatcca gcccatggca    1380
gcagaggcag cctcctagcg tcctggctgg gcctggtccc aggcccacga aagacggtga    1440
ctcttggctc tgcccgagga tgtggccgtt ccctgcctgg gcaggggctc caaggagggg    1500
ccatctggaa acttgtggac agagaagaag accacgactg gagaagcccc ctttctgagt    1560
gcagggggc tgcatgcgtt gcctcctgag atcgaggctg caggatatgc tcagactcta    1620
gaggcgtgga ccaaggggca tggagcttca ctccttgctg gccagggagt tggggactca    1680
gagggaccac ttggggccag ccagactggc ctcaatggcg gactcagtca cattgactga    1740
cggggaccag ggcttgtgtg ggtcgagagc gccctcatgg tgctggtgct gttgtgtgta    1800
ggtcccctgg ggacacaagc aggcgccaat ggtatctggg cggagctcac agagttcttg    1860
gaataaaagc aacctcagaa caaaaaaaaa a                                    1891
```

<210> 6435
<211> 1369
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)...(669)
<223> similar to gi4929761 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 6435
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cagttagtgg tgctcaacgt gtacgacatg aattggttcc ttccgatggg ttcttggtct      60
cactgacttc aagaatgaag ccgcagaccc tcgtgtattg gatgaacgaa tatacctcat     120
ccattggaat tggagttttt cattcaggaa ttgaagtcta tggcagagaa tttgcttatg     180
ggggccatcc ttaccccttt tctggaatat ttgaaatttc cccaggaaat gcttctgaac     240
```

5064

```
taggagaaac atttaaattt aaagaagctg ttgttttagg gagcacggac ttcctagaag      300
atgatataga aaaaattgta gaagaactgg gaaaagaata caaaggcaat gcttatcatt      360
taatgcataa aaactgcaat tcattttttc tttcagcttt tatccagaga ttctttgtgg      420
ggaaaagaga ttccctccgc tggaatcaat ccgactttgc cctactttca gcttccttgt      480
atacctttt  cttacagagt tgcctccccg aagggaggtg ggctcacgcc ccgcagcccc      540
tgcagtccta gtgtccagcc aagaacttcc aggatgaact gggaggaagc agaggatgct      600
gccgcatccg ctttccgtgg caagcagctg ccagcaggct ccagacccgg ggcgccacac      660
taaactataa atgtctccaa aggtcacaca ttcagaactg tctctggcag tcgaatatca      720
ctagagaaaa gtaaacagag aagcatcctt tagatatttt gtatgcaaag atggctctcc      780
cccaaatccc agttttcag  ctcaggatta tatttgtaat caaaaaaaaa aaaatcactt      840
ggcgcaggag ggagaacttt gtaagaagct gccctatgtt tttttatcc  actcgtaaat      900
ctggatttat ttcttctgtt ttatacaagc tctgttaagt tatgtttaca gtatcttgta      960
tcgctgttta caaatcttgc atggactcct gccacagtga aagaagaaaa tcttcatgtc     1020
ttcaaaaatt aggcaggtaa tctttgtata cttctgacaa ttgccagatc tatggcataa     1080
ataggcacac aaaaaggtac ttaaacagtt atagtcacca tcacctgctt cagaatggtc     1140
ttttagattt gagtttgttt tgttaaagtt gttggcacca ggatgcagag aatcatactg     1200
gcctgaggtg aaggagcaca cagccctgag ggcttggaac cctgggtcca gttcctcttc     1260
acaccccctt ccactctgag tagcacatct ccccaggtgc ccatggaaca cctgctttca     1320
tcccaaatat ccgtccacct aggcggggtg gtatgttctt acgcctttt            1369
```

```
        <400> 6436
tgccattgta cattctttat taaacatcaa tactgaaaac agatttactg acatatgtat       60
ataaattata atcaaaactg ggaaaagggg acaaggaaat tggtaatctc tctctctcat      120
gcgggtggtg cgatctgggc tcactgcaaa cctccaactt cctgggttca aggcaattct      180
cctgcctcaa gcctcccaag tagttgaaaa ttaccaggtg tgcaactacc acaccggct       240
aaattttcgc attttttaata gtgacaggtc ttcaccatgt tggtcaaggc cggtctcgga      300
actcctgacc tcagatgatc caacccgcct tggcctccca aagtactgga attacaggcg      360
tgaaccatgc atggcgccgt ggccttcgct ttcttttttct atgtcctcct ccttcactat      420
cgtcttcata ataaaagatg tctcgaaatg ggaaaacttg cttgggtgct gcaggagtct      480
ggatttagt  gcctttttc  tccatcattt tttctaactt ttccttcagc aaaggtagag      540
tcgtctcata aaggtagtcg atgatctctg gaaaagtctt tttctgccaa aatggaacat      600
agacagcttt cagcctagaa aatttagttt gaacgtaaga tggaggaaca tcacctatgg      660
cactagcaag atcttcccag tctatttcat tagtatcttc cacatttatt tcatacaacc      720
tttcaataag gctgaccttg gcccgcaggg cattcatgcc atagtatata cgccgaccat      780
tagtcatcct cttggttaga atttctgtcc acttacttt  acactgcatc caatttctgg      840
tttgcacttt agcttctact tctacccaag atatgccctt gtagagtttt tcccgaacaa      900
ttgataggca actttcagga ttttcttgga gtttggaatc cacctctttt aactcctggg      960
gagacatctt cttcagaatc acttcttcga cagccttgat tagtttccgg gtttcagact     1020
tactccaagc accacgattt ctttgactgc tgatctgtga gaacttgagg gccacggaga     1080
```

5065

```
ggctacgtcg ggccaccatc tcaccaatcg tcttccagtc attcccaagg agagaatggt    1140
acatctttaa cttctcagta tctccttcgc tatacctgcc tttgtaattg ttgacatcga    1200
acatcttctt tgctcgatag tatataagtt tccagggccg ggcaatgttc cttaccaatg    1260
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acattttttct ctaactgctt attttccttt acagaaaact tgccaaattt aatagcgaca    1440
ccttgtgctt taaattcctt aaaccgttcc aagtcgtccc ggtacatccg cttgattgtg     1500
ctggtggccc tgtccttgat gttaggaatg aactcctgaa gctgtttcac ggcagaaccc    1560
aaatccgcat ctgaatcatc ggcatctcct gaatctgcag ataagtatct tatttcggaa     1620
tcttcagctg tttccacatt gtgttcttca tttgcaggtt ctaaccttgg cgcctcttgc    1680
acgtgcttgc ttgccaaaca ggcctgggtt ttcttttgtc ggggcctaga tttcacacct    1740
tcttccatca tggcgccatc accttctact gaatcaaaga gtgtgctctc agagttctta    1800
ctgggcactg aaaaatcatc accagacact cgtgcccttt tgacagacgt aagcttcctt     1860
ttcttagact tcttctttgt actgttggat tccttgaacc ctttaagagc tgtactgcct    1920
tccacagtcc caacctcact gcccacctgt gatccttcag ggtatgcact ctcgaggctc    1980
tcaggcatgg ccactgcctc aaattcctgg tgattggact ttttctttttt tttcttagac    2040
ttgtttttat aagcaggtgc tggtattcct gcagtttcac catgcaggcc cacagcaggc    2100
cggcgattcc tgcatatcag ccccaacctc actgcccact tgtgatcctt caggcatggc    2160
caatgactca aattcctggt gattggactt tttcttcttt ttttttcttag actttttttt    2220
gtgagtaggt cctagtagtt gtggagtttc atcatccaag cccacagtag gctgggattc     2280
ctgcatatcg gtcccggcct ctctgcctgc ttgcgatcct tcaggcatgg ccaggtgtct    2340
catattcccg gttactggac ttttttctttt ttttcttaga cttgtttttta tgagcagatg    2400
cctggtagtt ctgtaatttc accccctgga cccacagaaa gccaggactc ctcctggtg     2460
gggaattctg actgaggcag ggtgtccctt tgcccgctgg ctctcccagg atgcagcttt    2520
cctctgatgc ttttttattct tttttctccct aactttactg tgcagggctt ctgatttatg    2580
tgccatgtga cttagcaagt acctgaaatt tgtctgtttt aggctttcct tggtaacttc    2640
tgttctatgc tcatatcaac acaaacaaca tcaacatcct ttctaaaatg ctttggtgtg    2700
ttgttaatat tttctttatc cacaaggaca actgtaacac ctgcttcctc gtccacctcc    2760
aaagcactat atcttctctt ttttctcttt ttgagtgtgg aagtggcatt tgcagtctca    2820
tcacagattc tggattttttt caaaggagaa gaaatgagat gctggaaatc tttttttcctc     2880
ttttttcctcc tagttatttg agactgttca ttcaccaggg aggagtctct gaaaatttcg     2940
tgggaatgtt tctgaggtct ttccttatgt atagaacact ttttcttttt cttgtcagaa     3000
actggagtgt ggatttcaaa tctgcttgat tctccttcca ttttattcca tggagaagcc    3060
attagactcc attcgagtgc aggatccaca aaagggcttc gcagtgggga tatcaggtat    3120
ccactgacct caaaccagaa gttggcctct ttgtgaaaga agttggatat gccttgttag     3180
tgtccaacaa agagcggacg ttctgcgata cactggaata aatttcacaa gccactaacg    3240
ttaatactca catacagggt gtgtgcccac gcgtccgcgg acgcgtggg                3289
```

```
<210> 6437
<211> 3470
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3471)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (853)...(1407)
<223> similar to gi5262638 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters
```

```
ccactatcca agtggaggaa ttccaggctc aagacagcgc ttccaggttc agtttcaggg     60
tctcgccggc agccccagcc ggcgggcgcg gagcgggcag cggggcccgg atcgcaggct    120
cctctggggg ccccggagtt gggaagcggc gtccgggagc ccccggagga ggatgggctg    180
cagacacagc aggctgagca gctgcaaacc cccgaaaaag aagcgccaag aaccagaacc    240
agaacagcca cccagaccag agccccatga attaggtccc ctcaatgggg acacagctat    300
aactgtccag ctctgtgcat cagaggaggc tgagcggcac cagaaggata taaccagaat    360
tctccagcaa catgaggagg aaaagaagaa atgggcacaa caggtggaga aggaaaggga    420
gctagagctt cgagacagac tggatgagca gcaaagggtc ctggaaggaa agaatgaaga    480
ggccctgcaa gtcctccggg cctcatatga acaggagaaa gaagcgctta cccactcttt    540
ccgggaggcc agttctaccc agcaggagac catagacaga ctgacctcac agctggaggc    600
tttccaggcc aaaatgaaga gggtggagga gtccattctg agccgaaact ataacaaaca    660
tatccaggat tatgggagcc ccacccagtt ctgggagcag gagctggata gcttacactt    720
tgtcatccaa atgaataatg agcgtattca tgagctggac aagcggnctg atcctcatgg    780
aaacagtgaa agagaaaaat ctgatattgg aggaaaaaat taccaccctg caacaggaaa    840
atgaggacct ccatgtccga agccgcaacc aggtggtcct gtcaaggcag gctgtcagaa    900
gacctgcttc tcacgcgtga ggccctggag aaggaggtgc agctgcggcg acagctccag    960
caggaggaag ggagggagct gttgtaccgg gtccttgggg ccaatgcctc gcctgccttc   1020
cctctggccc ctgtcactcc cactgaggtc tctttcctcg ccacataggg tgcagggcct   1080
gggcccacca cgacgcctga agtcacagct ccttccaagg tttttctgga gaagacagca   1140
ggagcctctc agttcttttc caggaaggaa cgagggtggg agcgagatgg agatcctggg   1200
tgtgtgccca gtgagccctg gggccttgag ttacatggaa tcacccacaa gggttcttgg   1260
aaggccccga gaaagcgtct tcccttgaag ttgggccaaa gggaataaag caagaggaga   1320
catttcctcc ctgccccagc actctgtccc aatccgagaa gttccgaggc tttcccaggg   1380
gcagtctgtg tcacgctggc catttgacat aaaggagaca gcccctggtc ccagcttgtc   1440
agctctgctg ccgacttgct gacttatcaa cttcctctag gtgtttccac tccaccctgg   1500
cctgctcaga gcctcagttt acccctgcat taaaatggtg gggggactgg tcaaaggact   1560
cttatgtcac tgcagtgtcc cattctagga ttgtctgaag gccagagtag gggttggggg   1620
gagtgtggac aaaccccgca aatcagagtg gggaaggtga gtggtagaga gggggtctct   1680
gaaggccctt ggggctgaca gggccaggca gcctccccag ctgaggcatc attcctgggc   1740
cagagtcgtg tccaccaagg gacagtagcc agagctcctc ttcctttacc aggcaaggtg   1800
catccctca gccctcctgg cccttcagtc ttggtgccac ctgggcacag gggcaagctt   1860
ggtggttgtg agtccattca tctatcagag ctggaacctc atccctgcac agatgaggaa   1920
accaaggcat ggagcagttc ccagagtcga atctagatct catctgtcat ccgggtctta   1980
tcctttgctc tgttttttctc ttcaggctct ggaaaatcag atctgtgact taatcttcct   2040
ctccctggcc ctcacccact tagtttcttt ttcattcctg ctccctgcct taactcctcc   2100
tcccactgcc cctgatccca ggcccaggct tttacaacct ggtgctcagc ttccccatca   2160
gtgaaaaggg gtggctagag taactaacct cagcaggccg tccagtcctg atagtctgtg   2220
gatttcggat ccttctcagg aagcttcatg tctaatggag actataatta taactcctgt   2280
tctgcataga gcatttgcat caaaggcttt ccataccct ccctcccctg gtcctcataa   2340
gatccttgaa gcaggttcct attcctcatt ggcaacatgg caaacagatc acaggagtca   2400
aagggccttg ctcaaggtcc ccagcttcag ccccaggccc taagccagcg tcagaacagt   2460
caatctgcat ttttcatcag tcattctata gtgacatcat cccagactgc cttctgtatt   2520
cccctgtgta cagtctcctt ctgtttctag gtttagaagt tcagaggtga ctgtgtttct   2580
ccatttccac agccaaatgg gggaagaggt gaggctaggg gagtgctgtg ctgattctcc   2640
agccatggtc agacaggtca cccaggagcc tcgaggaaag ccctggaggg aatcacatgt   2700
gtactttttc atgaagcttt ttgcaaagca catctgcgat acactagttt attgaactaa   2760
tgtccaggag tagacgtgat tggtggccaa gttatttggg gacacctaaa cagatcagtg   2820
acctgaatga cttctcagaa cctttaatat gccaatgtgt gtggcaaact tacaagaagg   2880
gagctaagta tccagcctct cccaaacctc tttgaacaaa gcttctgtcc ctcccacacc   2940
tctcacctca caggcacatc aggctgcaga atgcgcttta gaaagcattg ttttagtcca   3000
ggcacagtgg ctcacgcctg taatcccagc actttgggag gccgaggtgg tggatcaca   3060
aggttgggag attgagacca tcctggctaa cacagtgaaa ccctgtctct actaaaaaaa   3120
```

```
tacaaaaaat tagcttggcg tggtggtggg cgcctgtagt cccagcagct tgggaggctg      3180
aggctggaga atggtgtgaa cccaggaggc ggagcttgca gtgagccaag atcgcgccac      3240
tgcactccag cccgggtgac agagcaagac tccgtctcaa aaaaagaaa agaaaaaaga       3300
aagcattgtt ttaattgaga ggggcagggc tggagaagga gcaagttgtg gggagccagg      3360
cttccctcac gcagcctgtg gtggatgtgg gaaggagatc aacttctcct cactctggga      3420
cagacgatgt atggaaacta aaaagaacat gcggcacctt aaaaaaaaaa               3470
```


```
        <210> 6438
        <211> 1026
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (854)...(317)
        <223> similar to gi4572554 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 6438
tttttttttt ttaaaagtat ttattatagt aaaggttact gttggaaaag atgaggggct        60
ttggtcgcat atgttgttgg gcatttgtct ttagaacgat tggacattat ttgcatcatg       120
aattgtaatt tttatgacta tgcataattg gttttttttcc tgacccttgg aatcgttagt      180
ttcatgtaac tttttaaaaa attaaaacat tgcagactaa atgtactgat aagtacatac       240
tgaacacatt taattaccca cagtaattaa aaagtcctga tctttacttc ttaaggatgg       300
aaaattcatt aacttgcaat ctctgggatt tctctattat ccacaatgag agtatgaata      360
atcccttcct tccgcttccc cactactgga cagcctttat gtaacaggtc atgggtcccg       420
atactgaagt gagtttcagt cccatcatct acaaactcac ccgctgtctc caatttttta       480
ccattgcacc atacgtccat agcatctttt tccaaaacaa ttctaaagtt ctcaccatcc       540
atgtgtaata cccaagtatt ggtggttttt gatctgtcct ccatatactt cttgagactt       600
ttcccattaa tttccagagt atattcataa gcaaaaccac tgatagcgtc tatatttatg       660
gtcgcttttg tctttgcagc tccaacatag aatgtttctt tgcccactaa tttgaacatc       720
cactcttttc ttatctcttc ctttccatct acatatacta ctcgtttgcc tgatgtagtc       780
ccatgttcaa attcgatctt gtggactccg tcacttaaag caacatccca aacagctacg       840
agatctgtca tttttttctag gctgtaagga gggctgtgct ctgtgggccg cgggaggctc      900
tggggtaggt ttcaccaaac aaccggttgg ttccgactcg gctgcgtagg ccgcgtggcc       960
ttgctcccct ggccgagaaa caggcgcagc cggcgcggag gttgaaagct ctgcaggcgc      1020
gagtac                                                              1026
```


```
        <210> 6439
        <211> 1874
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (116)...(695)
```

<400> 6439

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cggacgcgtg ggcgaaccct gaaccctacg gtcccgaccc gcgggcgagg ccgggtacct    60
gggctgggat ccggagcaag cgggcgaggg cagcgcccta agcaggcccg gagcgatggc   120
agccttgatg accccgggaa ccggggcccc acccgcgcct ggtgacttct ccggggaagg   180
gagccaggga cttcccgacc cttcgccaga gcccaagcag ctcccggagc tgatccgcat   240
gaagcgagac ggaggccgcc tgagcgaagc ggacatcagg ggcttcgtgg ccgctgtggt   300
gaatgggagc gcgcagggcg cacagatcgg tgcgtgggga gggttgggcg ttcctgaccc   360
cgactgggag gtcagcccga gagactttgg gtccctgggg gtgcgacggt gccccactac   420
cagcaccggc cccagggtgc cccaccgctg tgggctgcca ccctcacgcg tacccccaca   480
taccaggggc catgctgatg gccatccgac ttcggggcat ggatctggag gagacctcgg   540
tgctgaccca ggccctggct cagtcgggac agcagctgga gtggccagag gcctggcgcc   600
agcagcttgt ggacaagcat tccacagggg gtgtgggtga caaggtcagc ctggtcctcg   660
cacctgccct ggcggcatgt ggctgcaagg ttataaacca cctcctttcc agacgggagc   720
ctataccgca catgcagcaa ccagtccatc cacaggcagc tcccaacctc aagcctggcc   780
caaagcctcc aagaccctac caaggcttct ccccaccctg ctccccagca cagttctccc   840
cacccgttc  cccagcacag cgcttggggc ccctctggct ccagaccagg cccttggag     900
caggaaaaag atccactgat ggaattcaga cccctttcc  cttgggtccc cagacagctc   960
ccccaaggga ggagctgagg acttccctcc ctctgcccca agccttgttt ccccaaggac  1020
aggtaccaac ctcctcccct actgacactt ctcaaccaag aaaacttcct ttccattccc  1080
tcaccagctg ggcaccccta tagctgctta aatactttcc aaatccagct gcactcctag  1140
ccagggaagg tgaagggatg cacagaggtg ggggagggt actgtgcagg gtactcagca  1200
tccctgacca ccaggtgcca atgatcagcg gacgtggtct ggggcacaca ggaggcacct  1260
tggataagct ggagtctatt cctggattca atgtcatcca gagcccagag caggtacggg  1320
gcgccacgga tcagtcattg atccaggttg atgatggaga ccctggccag aatcactaaa  1380
agatcactgg tggatcatta gggtcactaa tgagaacact ggtcaaggtt actcatgagt  1440
cactgggcct gggccgaaat catcagtgga actttgatta ggatcataaa atgggaagtt  1500
ggtcaaaatc acagatggct ggcggggcac ggtggctcac acctgtagtc ctagcacttg  1560
gggaggccga agagggcaga tcccttgaac ccaggagttc aaaaccagcc tggataacac  1620
ggcaaaaccc catctctaca aaatagttcg ctgcgtgtgg tggtgcacgc atgtggttcc  1680
agctactcag gaggctgagg caggaggatc acttgagcct gggaggtcta ggctgcagtg  1740
agccgggacg atgccactgc actccagcct gggcaacaga gtgagaccct gtcccagcac  1800
tctgggaggc agaggagccc agttggagat cagcctgggt aatatagtga aacttgatct  1860
ctacaaaaaa aaaa                                                     1874
```

<210> 6440
<211> 2066
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1571)...(485)

<400> 6440

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ttggggccgg ctgccttaaa gcagtgaaaa agaaagcaaa tagcctggcg tgaatgccaa        60
aatgaccgct caacaaggac agctggatag atacgggcag agaatggaac agagtatgga       120
cagaagggggg gcagtgataa accccgtctc ctccccgcta cacaatggga aatgaggaga       180
tgctggaagg atcaacggcc ggatgatcaa caaccttaac aaaattaagg gcagacgcag       240
gggaccgcgg cagcggccat gaggcaggtg ggaagcaggc acagtgatga gccggctgag       300
gctgtgggat cgtttattgg ggctctgtcc agccaggctg cagcacccgc ctgggcctgg       360
cccggtgcca ccaggtgccg ggtgggtgga ggggagaaag tgcaggagcg gccgccgccc       420
ctagggctcg gccggctcct ggtcctgtct ccgtctctct gaagcggtgc ggcgcttcag       480
cgtagagcga ggtgtcgtcg tcgctgccct tcgccgcccg cgccgcccat cccgctcctc       540
tctgctctcg gccaaccgcg ctctcgtcga tgttctccag tggagtccgc atgctgcacc       600
gacagctccc gacagcgcca ggctcggcaa cgggctctgc tccgggtgcc agccacggct       660
tgaagtgagg ccaggtgctt ctgtttccac tcggggtact tgaggcacgc cttgtacatc       720
ttcttcatgg ccttgggagc caggaactga gaagatttat tcaccaccca cttgggtaag       780
gagccttttgg ggtccacctg gccaggtag gtgatgacgc agctcttggg ccctgtgctc       840
tggatgaggt agcccgtctg gatggacaca gctcggacca agtctttccg aggtgggtat       900
ttgggatgtt tgactgagta gttcataatg atgtaatcag cgcccatggg gagccaggag       960
cggagggtga tgacatcacg gttcttcagg ggcttgggac acctccagga gtaatagccc      1020
acgtcagcgt tgactgtcaa gcgggcgatg tcaaaagtct caatgacgtt gctgtcccat      1080
ttcttgcggt actcaatgtc gtgtaggacg tcgtagagtg tctcggctgg cacatcacag      1140
cactccatcc ggcacttgat cttgtgcagc gtccgatcca tctccacagc ctgcacccag      1200
acagacaccc cagccctgct ataggtcagg ttccagccca cctcagcctc acactctgac      1260
cggaagctgc gaaagtcttg gtcatcgggc acctggacac tctcacggcc caggaccggc      1320
cgaggccctt ggggctctgt agaggccgcc agcttctcca tggggagtgt ggggaggccc      1380
agggccctgg tcctagtccg gctctcctgg gtcctccgcg gaggctccga caacgtcgac      1440
gcggctgcag atgctgacgc caccttcctg ggacctgaga agcagggtct gtacagctcc      1500
agcaacactc tccttttcct ccagaattct ccagatcctc ctcagtttct tggctctggt      1560
gctcatctca acacagcagg gtcttcctcc atcaggccaa ggtgggggta ggagaagaat      1620
tgggaacagg gactccccta ggttctcagg gtacagtcag tcaatctaag cctgtatcca      1680
acaaagacac tgacccctgg ggtacaagga agggctccag gcccaaaggc aggaggatta      1740
ggctttagct cttgctcaca gcctgctgag acctggggca agccctgtc cctctttggg      1800
ccctcaggtt tgcaatttgc agaatggagg aaatgggttc ctcaatctac aatcacctga      1860
ctataataat attttgcctt tatataccgc gtgggtaaat tcctgaaagt aaactaagct      1920
gttttcaccc ctggatctca tttgatcctc ccaacagcct gtttgcattt acaaatgaga      1980
aagctccagt tccctaaggg aacaaaatta cccaaagtca cacagcaagc tggaagcaga      2040
gcctgggtgc agtccttgaa tcctga                                           2066
```

<210> 6441
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1156)...(0)
<223> similar to gi4007113 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6441

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tttttttttt  ttttactcat  ttttagggct  ttttatgtgg  ccttcaaagc  acgttgcaaa        60
caaatccctt  tcactcctca  gaggaggagc  cattaggaag  gtaggggggcg  acaggcacag       120
cctacagcct  ctcctcagga  ggacagaggg  ggtcattgca  tttgagcccc  ctgccagtca       180
tcttcggggg  ctcctgaggg  tccaggtcca  acatgtttcg  agggtctgca  gcacatccac       240
gggcgctgta  ggacttccag  gcctgcatgt  tacagctctt  caggatggct  cccaagctgc       300
ctgccaaggg  cctacttcga  aagtttgggg  gaacccccctt gcccttttttt cctttcgtat       360
atggcatgca  tcgtcttgct  cccactttca  cttggggaga  ccaagctgct  gggccaagca       420
actttgttgg  atgttgcccg  ggaatgcctg  taatctaatg  cgcgtgggac  gttgggagta       480
gacagaaacc  agaggcttct  taatgtcgac  tgcctttaaa  gcttgcgtca  ggggctccac       540
ggctggctcc  atgaggcggg  tgtggaatgc  gccactaacc  ggcaacatcc  tggtgcgtct       600
gaaatgaaac  ttagaggaat  tcttctggag  aaaccgtaga  gccttcagca  aattccatgg       660
ctccggcaaa  cactagggct  gcaaactctc  ccacactgaa  tccagcagca  gcaacacagt       720
tctcaatcac  cgagggctgc  aggtgatgta  gtttctcgac  agcggccagc  gatgccacga       780
agatcgcggg  ctgacagtgc  acggtgcggt  ccagggtctc  ctgcggcccg  tgcaggctca       840
gttccagcag  gtcgtagccc  agcacgcggc  gggcggcggc  gtagagttcg  cggacgcgcg       900
ggtagttgag  cagaccgcgg  cccatgccca  ccacctggct  gccctggccc  gggaagagca       960
gcacggagca  ctggcccggc  attcgccgct  ccgtcgccgc  ccagggcgcc  tcctcctccg      1020
ccccggtcgc  atctcgcagc  agctccgcta  caccctgggc  gcccggcgga  ggcaccggga      1080
agctcgaggc  gccgcggcgg  tagctggcgc  ccaagcccct  gacccacgct  acccgtgcga      1140
cccggacgct  catggtcgga  cacctgccc                                           1169


          <210> 6442
          <211> 3753
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (3673)...(1304)
          <223> similar to gi1177440 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters


          <400> 6442
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cctgggggagg aaatacacgg  caggggggccg cacccagccc  cccacggagg  gacccgtgtt       180
gctctaacag  ggacactgaa  gttgcctctg  ccgccccgtg  aggggcctgt  ggcggcccca       240
gacccagccc  agccaggcca  gaggagcctc  ccaggggccc  tcaggtggtg  aggtggggggc       300
ttcccggccc  cggtgcccac  cggcccttct  agctgcctgt  gctgggccag  gtgtcctctg       360
aggccggcag  gagtctggcc  cccgctgcac  ctgcgcttgg  tggctggcag  gggcaaggta       420
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cagggccttg  gaggtttttc  tcagctctca  acatcacagc  acagggcccg  tgagtcaccc       660
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acgagtccgt  gcctcaggcc  cagggaccac  aggccgtctg  ctcatggctg  aaaatgaggc       840
caagcagctc  ccaagtctcg  aagactccac  tggtgtggag  gcagagggggc cctctccaggg      900
cagggcagcc  ctcggggcag  cagcaggggc  aagggctctg  tctcacgcac  acgggcacag       960
gcacgcaggt  gccggccctg  ccgctggctc  ccaagaggcc  gatagcccgg  tagggaggtc      1020
```

```
acacacacac agctgatccc tggaggtaaa gaaacctaga cgaggagagt ggaggctggg    1080
cctgcgcaag gaggcgccaa gggggggagac cactgcccac aacagggtca gtcccgcgag    1140
agggtcagtt ccgcgcctgc cgcctgcccg cccagctgca gggtgctcgc cattgccact    1200
gctggggagc atggtttggg ccgagaaacc agtgactccg ggaggaaatg cagaagggcc    1260
ggggtgccag cgccagtgcc cattatgggc agggctgggc ctcacgtctg ggccagcgag    1320
agctcctcca agcctctctt tcccaggcgg tacctggcga ggtccttcct ggtcaccaac    1380
ccgacaacct gattgcggtt gtccaccacc accaggtgcc gcaggcccag ggcccggaac    1440
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aactcggaga ggtccatggt gcactcccgc tcgtcctggg acacgtggat ggactggatg    1560
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atcgccgccc ccgtgaggta ggacagggag atcccaaaga ccggccccca ggcagccccg    2160
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tcgtggaaga ggctcaccac gctcttctcc ggggtgttga agaaggccgc agccatggag    2340
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gcgatgaaga ccgggatctc gtggatcgtg taggccattt tctccgagtc aaaccttccg    2640
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gccgctgaca ctccggccgc agcccctgcg gagacgaagt cccgcttctc tgtgtctctg    2880
cggaggtact cgaagatctt gaaatctcgt ttcagtgacg ttgaccttcc ctgagagatc    2940
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ccgaccacgg acaggatcac accggacact ttgatcacca acgtcttgag ccgcaccacg    3060
tgggggatct tcaccccgtt gaggaagcac ttgatctggg ggattccgct gccagcagcc    3120
accggctcta tgaaagccac aatcacagag cccacgagca cgaaggcggc gttcagcgtg    3180
gcccacagca acagggagaa ggacagtccg cccttctctg tgaacttgtc gatattgccc    3240
ttgatgaccc tgtacttgag gccagccagg ttttccacca cgatgtcaat gaagcaggcc    3300
acgaggcccg tgaggatccc aatgagggcg cagatgaccc agcgcttgat ctccaccgtc    3360
cggaaggccg tgtgattgat ccgccgctcc tcctccagga acagctggtt ctcactgttg    3420
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gggaagggat gtggagggtc catattccgg ttccaaaagt tcatcatcca gcttcacgct    3540
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agccccgttc agcagcggcg tcccccccgcc gggccgcgcc gtcctccgca gcagcggcgc    3660
cgcctcctcg tcgtcccggt cccggccgga ccaggacacc ttcttagaga cgttggccat    3720
ggcccgccgc ggagcgacac cggccgggaa gcg                                 3753
```

<210> 6443
<211> 2881
<212> DNA
<213> Homo sapiens

<220>

5072

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      <400> 6443
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tcatgtgaaa acgcacatgc tctgtcatcc acaccgcctt tctttctttt ctttctgttt   120
cctttttttcc cccttgttcc ttctccctct tctttgtaac taacaaaacc accaccaact   180
cctcctcctg ctgctgccct tccttcctcc tcctcagtcc aagtgatcac aaaagaaatc   240
ttctgagccg gaggcggtgg cattttttaa aaagcaagca cattggagag aaagaaaaag   300
aaaaacaaaa ccaaaacaaa acccaggcac cagacagcca gaacattttt ttttcaccct   360
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gttaacatag cggcggcggc ggcaaacgtc accctgcagc cacggcgtcc gcctaaaggg   480
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tttttgggct ctccgggggtt cgggctggga gcagcttcat gactacccgg agcgggagag   600
cggccacacc atgcgagcac aaattgaagt gataccatgc aaaatttgtg gcgataagtc   660
ctctgggatc cactacggag tcatcacatg tgaaggctgc aagggattct ttaggaggag   720
ccagcagaac aatgcttctt attcctgccc aaggcagaga aactgtttaa ttgacagaac   780
gaacagaaac cgttgccaac actgccgact gcagaagtgt .cttgccctag gaatgtcaag   840
agatgctgtg aagtttggga ggatgtccaa gaagcaaagg gacagcctgt atgctgaggt   900
gcagaagcac cagcagcggc tgcaggaaca gcggcagcag cagagtgggg aggcagaagc   960
ccttgccagg gtgtacagca gcagcattag caacggcctg agcaacctga caacgagac   1020
cagcggcact tatgccaacg gcagcgtcat tgacctgccc aagtctgagg gttattacaa   1080
cgtcgtttcc ggtcagccgt cccctgatca gtcaggactt gacatgacct ggaatcaaac   1140
agataaagca agaacctatc tatgacctca catccgtacc caacttgttt acctataggc   1200
tctttcaaca attgggcagt tagcaccagg gataaaccat gactgaaatc gaccgaattg   1260
cacagaacat cattaagtcc catttggaga catgtcaata caccatggaa gagctgcacc   1320
agctggcgtg gcagacccac acctatgaag aaattaaagc atatcaaagc aagtccaggg   1380
aagcactgtg gcaacaatgt gccatccaga tcactcacgc catccaatac gtggtggagt   1440
ttgcaaagcg gataacaggc ttcatggagc tctgtcaaaa tgatcaaatt ctacttctga   1500
agtcaggttg cttggaagtg gtttttagtga gaatgtgccg tgccttcaac ccattaaaca   1560
acactgttct gtttgaagga aaatatggag gaatgcaaat gttcaaagcc ttaggttctg   1620
atgacctagt gaatgaagca tttgactttg caaagaattt gtgttccttg cagctgaccg   1680
aggaggagat cgctttgttc tcatctgctg ttctgatatc tccagaccga gcctggctta   1740
tagaaccaag gaaagtccag aagcttcagg aaaaaattta ttttgcactt caacatgtga   1800
ttcagaagaa tcacctggat gatgagacct tggcaaagtt aatagccaag ataccaacca   1860
tcacggcagt ttgcaacttg cacggggaga agctgcaggt atttaagcaa tctcatccag   1920
agatagtgaa tacactgttt cctccgttat acaaggagct ctttaatcct gactgtgcca   1980
ccgcgtgcaa atgaagggga caagagaact gtctcatagt catggaatgc atcaccatta   2040
agacaaaagc aatgtgttca tgaagactta agaaaaatgt cactactgca acattaggaa   2100
tgtcctgcac ttaatagaat tatttttcac cgctacagtt tgaagaatgt aaatatgcac   2160
ctgagtgggg ctcttttatt tgtttgtttg tttttgaaat gaccataaat atacaaatat   2220
aggacactgg gtgttatcct tttttttaatt ttattcgggt atgttttggg agacaactgt   2280
ttatagaatt ttattgtaga tatatacaag aaaagagcgg tactttacat gattactttt   2340
cctgttgatt gttcaaatat aatttaagaa aattccactt aataggctta cctatttcta   2400
tgtttttagg tagttgatgc atgtgtaaat ttgtagctgt cttggaaagt actgtgcatg   2460
tatgtaataa gtatataata tgtgagaata ttatatatga ctattactta tacatgcaca   2520
tgcactgtgg cttaaatacc atacctacta gcaatggagg ttcagtcagg ctctcttcta   2580
tgatttacct tctgtgttat atgttacctt tatgttagac aatcaggatt ttgttttccc   2640
agccagagtt ttcatctata gtcaatggca ggacggtacc aactcagagt taagtctaca   2700
aaggaataaa cataatgtgt ggcctctata tacaaactct atttctgtca atgacatcaa   2760
agccttgtca agatggttca tattgggaag gagacagtat tttaagccat tttcctgttt   2820
caagaattag gccacagata acattgcaag gtccaagact tttttgacca aacagtagat   2880
```

5073

```
<210> 6444
<211> 2417
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1840)...(546)
<223> similar to gi4101480 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters


<400> 6444
tttttttttt ttactgtaat aaaagcagct tgttttctgc ttgaacaata gctctgagag        60
caagaaggct ggaaatgcac attcagaaat gaggtaagca ggacccagtg aggcacgacg       120
tggtttacta gaagtggccg gtttcctggc agctttgtaa atggactcta acctcagtgg       180
aatctgggcc cccggctggg atcaggaggc gaccatatgg gcttttcttg tttcacggtg       240
aagaatctgt tgcgctgaga gcaccaggga gcaggtagaa gacccgggca gccatcctgc       300
gggggctgag aaggtgacac cagggctgct gaagtcgggc tccctgttag cctgcagctc       360
cagtgccact tgccctgtgc actgttttcc agttgaggag cagctcgagc tctgggggggg      420
cagcaccaaa ggcatctcca tggggcacct cagggatttt caggcaccac gggcaatgca       480
ggagcttctg gcgcctccac ctcaggccag gcccaccgtt cttctggtgg gatgaggctg       540
atgcgggact tctcctcttc agctgcctct agggagatct ctaaagacac cataagggga       600
acactgggct ccagggcctc cctcgggacc tcaatctcac ttggaacttc aatctttctc       660
ctttcctcct cagcggctgc ctcctcaggc agctctcgcc tgagggcttt tggggggtggc       720
tgggcacaag tgggtccaga gacccagtag ttcagggggt agccagccag agagagttgg       780
ggttctgaaa caactccgca aggcctctga tggtcctctc gggcggctgc aaccatagga       840
cattcccagc agtgggctct ggtttgcagt tgttcctgga atttctccgg ggagatctga       900
gtctccttgt cccagaacag taaccggcga cgacggcggc ggcgaggagg tggggggact       960
ggggggcctcc tctctgggct gggtgggggct ggcagacgca gctcctccgg gggggtcacc      1020
tccatgagta gggccccagg ttcccagcct gtcagcctca gctcctcagg acccagtgcc      1080
tctcctattc cttccacctc tgcaggagct ggaggtggga gccgcgggat ttctaacaag      1140
atagcttctt cttcctctgc gatcagcagg tccagttctc ggcggctgac ctctgggagc      1200
tcccgttcac cctcaatctc cagcatccgt atgggctctg cctcccagga tcgtgatggc      1260
ctcaggtggc agcacagtga ccggaatcct ctctggctcc ctgggctctg taggaacttc      1320
aggagggatc tcttcaactc tctctgggat tgcagcctct aagaggtgtc gaatctgagg      1380
gatatcgaaa ggactaggaa gtctgggatc cacagacatc atcccaaaaa agggatctgg      1440
agcatcttct agggtctcca tcatggccca ggtggttagg aagcagcagg ctgggtagct      1500
cagtctccat atctattcgg atctgcagct gggcacggtg gaggcgctcc aagatgtgct      1560
ggatgtcctc cacgaggtac tggcattgtt gagaatagac gcggatcaca ccgatctgaa      1620
gttgggctga gagatagagg gagaagcggg gccgcggcag gccgggctgc gggggttgca      1680
ctcgtaccag cacgtaattg aggatttcct cgcaggtttt caccacattc accctcaggt      1740
attcgcgctt caccaaccgg ctgccgcgag tcgccgccag ccagatggtg gcaaagcagc      1800
cggtgtggcg ctgaagcacg ttgggatagt agaacattgt ccctctggtc tttcaccctc      1860
gattccacca gatccccgtt cggatctgag tcggaatttc tttagggcac agaattccca      1920
acaccttgga gagaagtcag gatttggtct tctctggtgg caaggtgggt gcacctagaa      1980
agccaagtta atgaggcaac gaacaatggg cagatacaca attacccagg ataactgaga      2040
cgcaggagat gggcgcccct ctctgtggac cctcggtgga tccgcacgcc acgtgatgcg      2100
tcaaacttga gacttctggg ttgggttcca ggttggagat gcagagctcc aagggggacgt      2160
```

```
ccgggccgga atccagagca ggtcccgagg gagcacggtg tcctccacag caggcctcgg    2220
tcctcgagcg ctgggagcga tgtcaggccc ctgggccttg cactggcttg ggcggccgcg    2280
gtgtggcccc gggccgccta ctgcaggact agatcgcacc gcgggaagcg agcgcttcgg    2340
ggcaccgcac ctcgctcctc attagatggc ggcttttgcc ctgacagcca atggggaacg    2400
ggggtcgggt cgggaac                                                   2417
```

<210> 6445
<211> 2205
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1756)...(426)
<223> similar to gi3874275 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6445
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tttttttttt ttctggctac aaattttatt ccgttacaaa tagcaccgag cccttggggc      60
tgcccctgtg gagagggatc cccctcctgg accccacct cctcccctga gctacccatg     120
tagtgtctgg gagctggcac acggcccagg gtccctctgg aagctgggcc aggccaaggg     180
gttaggccca ggcccttcgt ggggtgggcc cagggccagc tgtggcagat gtgcaggtag     240
gtgagcggca gcctctcaga tgagcacact ggccacgggc acgcgggtgg agcggccccg     300
ctggggcacc acaatccggt cgtctgtgga ccctgcttcg tgcagcaggc cctgcacgtg     360
cagctgtgcc cgccggcggt cggcctcaat gaagatgggc ggtgcccagg aaggctgcgc     420
cgcccagtgc cccaacaaac gcgcagagca tgagcgagaa ctgcagagcc cggaactcgg     480
acaagaagga ggggggccag ttccggcgca ggcggtcaga gatcaggcca atgaggtagg     540
ggctcccagc atcacccagc aggtgggaca gcacgatctg gaaggcctcg gcggtggagc     600
gtcgggtagg gatcaccacg tacagcagaa tgtcggccac gatggcccag ttcatggaca     660
ggagggtctc tccaatgaag atgaaaatat aagtggccac gatgctacca cgggcgcagg     720
caagggacag gaagaggaag ggtgcagagc ccaggaggcc agtggcacag accaggggat     780
cagcccgggg gttggagtgg cggagccggc ggctgatctc cacacccagg cccacacccea     840
ggactccggt caggcaggtg atgagtccaa agatgagact gtcagaggaa gagcaggagt     900
ctccgggaag gcagggtggg gtctccccaa ggaccacgcg ggaacgcagc aggaatgccg     960
gagcccacag agccagggag cccgtgacaa aggccacagc agtgaagccc agggaagaca    1020
ggacgaaact aggatttctt gccagagccc tcagatctgc ccaccacgag gtggggttca    1080
ggggtggcaa atctgagtgg cgctccacgg ctccccttgg cggctcccgc actaccagga    1140
acagcagcag aacggccacc actcctagac ccggtgtcac cctcagagcc cagtgccagt    1200
ctccagccat atccttcact ttggagcctg caatgtagcc cagaccactg cccaccggaa    1260
tggcaaagta gaagatgctg agcatccggc tccgctggtc ggccacaaag aggtcggcaa    1320
tgagagtggg cgcgatggtg gaataactgg cctccccgac ccccaccagg ccccgggtca    1380
ggaggagcag ccagaaatgc tctccgggga tgaaggatga ccccagtgtc accagggacc    1440
agaaggcaat gcccccgcac atgagatact tccgattgta cctgtcaccc aggtagccaa    1500
acacaggtgc caacaccatg taactggaga tgaacacggt ctggatgagc ccagagctac    1560
tgtccccgat gttgaagaac tgctcgatgt cgggaaggac gccagccacg gtgaagcggt    1620
ccatgtagtt caggagattg atgtagcaca gcaccgccac tatgagagcc gaacggccgg    1680
gagacaggcc ggtgatgcgc tgcagcccct cctggtccgg gacctcgggc tcctcggact    1740
tcgggttccc cgtggaccct ggcaaccccg gggtgccagg cactggcccg tcgtccgggt    1800
catccgcctg gctgaggaag ggcgccggtg tcggacccgg ccatggtccc gggggggccgc    1860
gcccgcccgc gctccggtcc caccgacgat tcccaccttg cgaggggagg aggctggaga    1920
```

5075

```
aaggaggatg gaccgaacac aggcgaggga agtgcgcccg gagacgggga gcttgccctg    1980
aagcacagag caccactgag aagggacccg ggccctgtca cgcctccccg tctcagtaga    2040
cacacagcgc ggaggggacg tgcggaatac acgtgatgtc ggggacagga gcgggctgaa    2100
gagggcacga tcccacgcgg aggccacccc tcacccgggg taggagcccg ctgcacttgc    2160
tgtcgctcag cccgggcgtg caccgcggca gccgccatgt tgctt              2205
```


```
        <210> 6446
        <211> 4068
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (80)...(3471)
        <223> similar to gi3287173 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6446
tttcgtccga agcgcgggaa gcagctcttg tggatcctca gtggcggtgg ctcggtcacc      60
cggataggta aaggaaaaca tgcctgccac acggaagcca atgagatatg ggcatacaga     120
gggacacacg gaggtctgtt ttgatgattc tgggagtttt attgtgactt gtggaagtga     180
tggtgatgtg aggatttggg aagacttgga tgatgatgat cctaagttca ttaatgttgg     240
agaaaaggca tattcatgtg ctttgaagag tggaaaactg gtcactgcag tttctaataa     300
tactattcaa gtccacacat ttcctgaagg agttccagat ggtatattga ctcgcttcac     360
tacaaatgca aaccatgtgg tctttaatgg ggatggtact aaaattgctg ctggatctag     420
tgatgtttct agtcaaaatt gtggatgtga tggatagcag ccaacagaaa acatttcgag     480
gacatgatgc ccctgtttta agtctttcct ttgatcctaa ggacatcttt ctggcatcag     540
ctagttgtga tggatctgtc agagtgtggc aaatttcaga tcagacatgt gctattagtt     600
ggccactgct acaaaaatgc aacgatgtga taaatgcaaa atcaatctgc agacttgctt     660
ggcagccaaa aagtgggaag ttactggcaa ttcctgtgga aaaatctgtt aagctatata     720
gaagagaatc ttggagtcat caatttgatc tttcagataa tttcatctct cagaccctca     780
atatagtaac ctggtctccc tgtgggcaat atttagctgc aggtagtatt aatggtctaa     840
tcatagtttg gaatgtggaa accaaagact gcatggaaag ggtgaaacat gagaaaggtt     900
atgcaatttg tggtctggca tggcatccta cttgtggtcg aatatcgtat actgatgcgg     960
aaggaaatct agggcttcta gagaatgttt gtgaccccag tggaaagaca tcaagcagta    1020
aggtatctag cagagtggaa aaggattata atgatctttt tgatggagat gatatgagta    1080
atgctggtga ttttctaaat gacaatgcag ttgagatccc ttctttttca aaagggatta    1140
taaatgatga tgaggatgat gaagacctca tgatggcttc aggtcgtcct agacagcgaa    1200
gtcacatcct agaaagatgat gaaaactcag ttgatatttc aatgctaaaa actggttcta    1260
gtcttctcaa agaggaggag gaagatggtc aagaaggcag cattcacaat ctaccacttg    1320
taacatccca aaggccattt tatgatggac ccatgccaac tccccggcaa aagccatttc    1380
agtcaggttc tacaccgttg catctcactc acagattcat ggtgtggaac tctattggaa    1440
ttattcgctg ctataatgat gagcaagaca atgccataga gtgtggagttc catgatacct    1500
ccatacacca tgcaacacac ttatcaaaca ctttgaatta tacaatagca gatctttccc    1560
acgaagctat tttgttggca tgtgaaagca ctgatgaact agcaagcaag cttcactgcc    1620
tgcactttag ttcttgggat tcaagcaaag agtggataat agacttgcct cagaatgagg    1680
atattgaagc catatgtctc ggtcaaggat gggctgctgc cgctactagt gccctgcttc    1740
ttcgattgtt tactattgga ggggttcaaa aagaggtatt cagccttgct ggacctgtgg    1800
tgtcaatggc aggacatgga gaacagcttt tcattgttta tcacagaggt acaggatttg    1860
atggggatca gtgccttgga gttcaactgc tagagctggg gaaaaagaaa aaacaaattt    1920
```

5076

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tgcatggtga ccctcttcct cttacaagga aatcctacct tgcatggatt gggttttcag      1980
ctgaaggtac cccttgttac gtggattcag aaggaattgt tcgaatgctt aacagaggac      2040
ttggtaatac gtggactcct atatgtaata caagagagca ctgcaaagga aaatctgatc      2100
actactgggt ggttggtatc catgaaaatc cccagcaact aaggtgcatt ccttgtaaag      2160
gttctcggtt tcccccaacc cttccacgcc ctgctgttgc tatattatcc tttaagcttc      2220
cttactgtca gattgcaaca gagaaaggac aaatggagga gcaattttgg cgttcagtta      2280
tatttcacaa ccaccttgat tatttagcta aaaatggtta tgaatatgaa gagagcacta      2340
aaaatcaagc aacaaaagag caacaggaac tttttaatgaa aatgcttgcg ctttcttgta      2400
aactggagcg agaattccgt tgtgtggaac ttgctgatct aatgactcaa aatgctgtga      2460
atttagccat taaatatgct tctcgctctc ggaaattaat actggctcaa aaactaagtg      2520
aactggctgt agagaaggca gccgaattga cagcaaccca ggtggaagag gaagaagaag      2580
aagaagattt cagaaaaaag ctgaatgctg gttacagcaa tactgctaca gagtggagcc      2640
aaccaaggtt cagaaatcaa gttgaagaag atgctgagga cagtggagaa gctgatgatg      2700
aagaaaaacc agaaatacat aagcctggac agaactcgtt ttccaaaagt acaaattcct      2760
ctgatgtttc agctaagtca ggtgcagtta cctttagcag ccaaggacga gtaaatccct      2820
ttaaggtatc agccagttcc aaagaaccag ccatgtcaat gaattcagca cgttcaacta      2880
atatttttaga caatatgggc aaatcatcca agaaatccac tgcacttagt cgaactacaa      2940
ataatgaaaa gtctcccatt ataaagcctc tgattccaaa gccgaagcct aagcaggcat      3000
ctgcagcatc ctatttccag aaaagaaatt ctcaaactaa taaaactgag gaagtgaaag      3060
aagaaaatct taaaaatgta ttatctgaaa ccccagctat atgtcctcct caaaacactg      3120
aaaaccaaag gccaaagacc gggttccaga tgtggttaga agaaaataga agtaatattt      3180
tgtctgacaa tcctgacttt tcagatgaag cagacataat aaaagaagga atgattcgat      3240
ttagagtatt gtcaactgaa gaaagaaagg tgtgggctaa caaagccaaa ggagaaacgg      3300
caagtgaagg aactgaagca aagaagcgaa aacgtgtggt tgatgaaagt gatgaaacag      3360
aaaaccagga agaaaaagca aaagagaacc tgaatttgtc taaaaagcag aaacctttag      3420
attttctac aaatcagaaa ctatcagctt ttgcatttaa gcaggagtaa aggaagaaag      3480
tgaccctagg gaagtaatgg attttttttt actcatcttt gaatatagac tcgagtcttt      3540
gggaaactca ttatatatat attttttaaa gagtttgaag caactgtttg tctttataag      3600
ataatgtagt aattatattg gtgtaggtaa caggacatat gtaaaaacta tcatctttgc      3660
agattactct gcctccaaat gcaggccctt tcagagatgc attgtgattg taattactga      3720
gttgaagctc caaccaattt gaatttgttt cttaaccttg aaaaatcatt aaagccaagg      3780
tattaaaacc tttgtgcatt aataccttct aggggtttgg ttcatttggt ttttgtcatg      3840
tgcaaggaag gacaatagtc ctctttccaa gtgtgttagc atagacttct ctatatgttt      3900
ctactagacc tagggggatga cgtcttttaa taatactggc cctaaacatg taaataatct      3960
tgtaggtgag actttttctt ttgtgtttcg gaaatttcct atgtggcttt cagttgtctg      4020
tttgtatagc ctggattttt ttgaggtaaa tgaaactttc tcatttgt                  4068
```

<210> 6447
<211> 2593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2398)...(871)
<223> similar to gi4929769 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6447
tttttcacag catgaattca gaagcttact ttcaaaaaaa atttattcaa tgaatacaca   60
```

```
atataattcc atttcgagtg attaaaacct atttgttgtt taaaaccaaa caaaactaca    120
agaaaacatt ttcaaaacct tttttttcag gctgaagaaa tcgtttaatc cattttaaag    180
aaatctcaca tgatgttctg tcgggattaa aaatatacac ggaaaaaaat aaaacaaaat    240
atatacacag aaagaagctc gcacagagtc aggcgtgcag caacgtcaca cactcattcc    300
tttctgtttc ctctggacac tcaaaatgtg aaagcaagta agagggggt ggttaaccaa      360
accttttggt ccaaggaata aaatttcttt aaaaaattta aaacgtcaaa acctgccaga    420
ataagacaat agaagagcgt atcgtcaggc gctgggaatg gcaccacgac aaggcattaa    480
tgtggattca cttgcacagc tgctctcata aaagctacac gattcagagg taaccctaac    540
tatccgcaat cccaaccaaa gtcatgttca tgccgctgtc ctagtctgga caatcatctg    600
tcactcatcc aacacagtta tatacagaat gcgcagtccc agcaacagtg tagattacag    660
caggcgttct ctacctggac tcatgattgg atttcatttc taaattacat cagagctttc    720
aaagattgaa atacacaaat ctgcactacc caagcctcct tgcctgtacg ggaaacaaat    780
cagaagagca tttattggga actgacacgt caggcctcac aggtgctggg caggaatcac    840
agaggcttgc tctgcatcat gtcttccgtt aacctgaagc tttgggttta ttgtgtttgg    900
caaaccactc gtcacttta tctgctgcca ttgcatcatc caacaatttg cttccctctg      960
gatccatctt agaagagttc tcgaaatgct tcatccccga caaagcaaat ttcatgtccg   1020
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aggggagtca gaatcttctg gttctccctt ttcatcaagt cttcctaagt ctggcaaact   1140
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ccttgacgcc cctgtagctc caagcttaca ctggttatca gcatagccca gcaaagccct   1260
ttgcttttct tcatcttttt cataaatttt cattcccagt agattacacc agtagttcaa   1320
ggacttttga agatcagaca ctgctagagt tactttaat acaggatctg actgaggcag     1380
actgcgattc tgcaaataga acttatatcc tcccgggggcc tcggtttcaa aaacaccttc   1440
tgcaacttcc gtcagtggcc actccagctt cctggcgttg ctgacagcct ggctagaagc   1500
gagcgtgatt cccataaagt cattgccaag cttgtagtct ccgacgccat aattgtaagt   1560
cagttctgcg acaaaatgat catcctcagg cccaaatccc accattgttt tactccattt   1620
cccatcataa ggcccattac aggcagcttt gcagccttct tcaaattcct catgccgcag   1680
aaccttcatc cccaggacgt cccgatagaa acgcgccgtc tggaagcggt ttcccacttt   1740
gaatacgaag tgcagagctc tgcgagcagc catgattccc gccgcacgca gccgtcacgc   1800
gcaccgtaca gcccagtcca cgaagggcgc cacggccgt gacgtcacct atgcccgacg     1860
gcgcgctttc gtgacgcagc ccgggtctca gggaacatgg cggcgctggt gagacccgcg   1920
aggtttgtcg tgcgaccgtt gctgcaggtg gtccaggctt gggaccttga cgcgaggcgc   1980
tgggtccggg cgctgcggcg gagcccagtg aaagtggtgt ttccttccgg agaggtggtg   2040
gaacagaagc gcgctcctgg gaagcagccc cgcaaggcac catctgaggc cagtgcccag   2100
gagcaacgag agaaacaacc gctcgaggag tccgcatccc gcgctcccag cacctgggaa   2160
gagtctgggc ttcgctacga taaagcttat cccggggaca ggaggctgag cagtgtaatg   2220
acaatagtaa agtccaggcc atttcgggaa aaacaaggga agatcctgct ggaaggtcgc   2280
aggctcattt·cagacgctct caaggctgga gctgtgccaa aaatgttctt ctttagccgt   2340
ctagaatacc taaaggagtt gccagtcgat aagctgaaag gtgtcagcct cattaaggtg   2400
aaatttgagg atatcaagga ttggtccgac ctcgtaacgc cacaaggaat aatggggatt   2460
tttgccaagc ctgaccatgt taagatgaca tatccaaaga ctcagcttca gcattcactg   2520
cctttattat tgatttgtga caatctccgt gaccctggga acctggggac aattctgaga   2580
tctgcagctg ggg                                                     2593
```

<210> 6448
<211> 1986
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (28)...(179)
<223> similar to gi5051648 in the genepept database release 114,

Run with FASTXY 3.3t00, default parameters

<400> 6448
agcggccgcc cttttttttt ttttttcagt aatacagatg tctattttat taaaaaagtt   60
acaaacaggt ggactgcagg gtcgtcttac aaaatgacaa gaatgaaatc tattggaaaa   120
attttacttt tacaaatctt tataggtaaa ttgttcaatg tttgtacttg ttatttgaga   180
ttttaccttt cactgataaa gttacagtac attagatcca tgataatagg ttacattatt   240
ttatttgcag agccctactg cagtgatttg aacaactcct aaatagatgc cataataaag   300
acaagacata tattgcattt aatattaatt tattatccta ataagcaaca tgcaatctat   360
tgaggaagct aaaataactt ttggtccctt ttcttaaaat gtgctggaga aaccaccttt   420
aaaatcactt tcccctgatt cctgcgatcc taagtgaatt caagtcaaat ttgctgctga   480
ggtcaatgac aatgaacact gtaattttga gagagagaga gagagagaga gagagagaga   540
gagagagaga gagagagaaa caagaacaca atctacagga aagaaacatt ataaaaaat   600
caaaatctct agaaaattta aatcatgatg aattatttga ttcctttaga atttcacaaa   660
gccacaaagc taataacaat gatccatgat cacttaacct acttttaaat gagtgtttgg   720
ttttaagttt ggtattaaag tgcaaactta aattaagtat tcacttcaag cagttcataa   780
ataaggaaca atgtttcaat tgcctctatc tttacaatct caccataaaa ttcaaaattt   840
aagaacaaga gttcactttg agggaatttg ctcaggaatc aaatgcaaca cgatttaaaa   900
aaaggaaatc aaagtttagt caatttctac tcagtaatta atggtcatgc tgacccataa   960
atcacatgaa tgtagatacc actttatttg aacatcacac acaatataaa tttaaaattg   1020
ccacaccctt tcataaacca tcactgcata tattagagct ttccttgaca aagttattga   1080
gctcttatta tagatcaaaa gtatagtttt ggttttgttt tattttattt agaagcatgt   1140
tcaaatgact aaagctgggc tcctaaaatc gagaactttg gtgcagtagg tgagctgcag   1200
ttactaactt ctgcaaatga aaagcacaca actaaaatca aataaaaacc caacaataaa   1260
atactgtcaa acttacacaa tttaaaaatc attgctagaa aaagccctca ttgtcacgat   1320
gttaaaactg aaccaaaata ttactctgca taagtttcct ttctgattct acacctgcgt   1380
tactgttaaa atgttcaagt attcagacaa aaatatgctg attaggtaaa caacatggaa   1440
ggcaatggct attagaaagc acatttgcaa aaataaaaaa tagcccagag acttggcgct   1500
attctccctc ctgttacaca gattttgtct ctaatacgaa catgcttctt gagaaataac   1560
taaaaagcaa ttgtgatagt gcaagaaaac tttaacaaat attgctttaa actattattc   1620
agaaagacaa atattaagaa ctagaaagtg tgtatgattt tatttgaatt caattttaca   1680
tgtgcagaag tctactagat gtcaattaca agcctgatag gcaaagatga gctatctctg   1740
tttaggtata caattaattt accatggata caatatccct tttcaaaggc attgctaaat   1800
aggtcataac taaatttaga acttcacaga aaggaaaatg ttactgccgc aattcaatgc   1860
tgtaaatgag attaacacat gtgaaaacct aatggaactg aatgcttaac tcttcaacta   1920
aatgctctac agtcaatttc aaatatcaat tgtaaccttc agaacatgtt aattacaaaa   1980
aaaaaa   1986

<210> 6449
<211> 2287
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (112)...(1745)
<223> similar to gi6019470 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

```
caggcggtgg ctatacttat taaagttggc gggagctgag cgatcagtcg gtcctgggct    60
ggctgtggtg tagggcgttg caggcagcgc tcacctcctc aggccggcag aatgcgggtg   120
gctgtggctg gctgctgcca cggcgagctg gataagatct atgagacgct ggcgctggca   180
gagcggcgcg gcccggggcc tgtcgacctc ttgctgtgct gcggcgactt ccaggcggtg   240
cgcaacgagg cggatctacg ctgcatggcc gtgccgccca agtatcgtca catgcaaacc   300
ttctacaggt attactctgg agagaaaaag gctccagttc tcacgctctt cattggggga   360
aaccatgaag cctcaaatca tttgcaagag ttaccctatg gtggctgggt ggcaccaaac   420
atttattatt taggtttggc tggtgtggta aaataccgag gtgtaaggat cggtggaatc   480
tctggtatct ttaaatctca tgactatcga aaaggtcatt ttgagtgccc cccttataat   540
tcatctacaa tcaggagtat atatcatgtg agaaatattg aagtctataa attaaaacag   600
ctgaagcagc ctatagatat attcttgtct catgattggc caagaagtat atatcattat   660
ggaaataaga agcaacttct taagactaaa tcttttttcc gacaagaagt ggaaaataac   720
acattaggaa gtccagctgc ctcagagctt ttagagcatc tcaaacctac ttattggttt   780
tctgcccacc ttcatgtgaa gtttgccgcc ttgatgcagc atcaggcaaa ggataaagga   840
cagacagcca gagcaaccaa attttttagcc ttggacaaat gcttaccaca tagagatttt   900
cttcagatat tagagataga acatgacccc agtgctcctg attacttgga atatgatatt   960
gaatggctca ctattctcag ggctacggat gatcttatta atgtgactgg gcgcctgtgg  1020
aatatgccag aaaataatgg cctgcatgca aggtgggatt atagtgcaac agaagaaggt  1080
atgaaagaag tattggaaaa attgaatcat gatctcaagg ttccatgtaa ctttagtgta  1140
acagctgctt gttatgatcc tagcaagcca cagacacaaa tgcagctgat tcataggatc  1200
aatcctcaga caactgaatt ttgtgcccaa cttggcatca tagacatcaa tgttaggctt  1260
cagaagtcca aggaagaaca tcatgtgtgt ggtgaatatg aagaacagga tgatgtggag  1320
agtaatgact ctggagaaga ccagagtgaa tataatacag acacatctgc tctgtcttct  1380
attaatccag atgaaataat gttagatgaa gaagaagatg aagatagtat tgtaagtgca  1440
catagtggca tgaatacacc atcggtagaa ccttctgatc aagcttctga gttttctgca  1500
agtttctctg atgtcaggat cttgccaggc tctatgattg tatcttctga tgatacggtg  1560
gattccacaa ttgatagaga ggggaaacct ggtgggactg tggagtcagg gaatggagag  1620
gacttaacca aggtgccatt gaagaggctg agtgatgaac atgaacctga caaagaaag   1680
aaaattaaga ggaggaatca agccatttac gctgcagtgg atgatgatga tgatgatgca  1740
gcttaagatg atttacttgt tttgttttg tgtttgtttt gcttttttga gatggagttt  1800
cactcttgtc acctagactg gagtgcaatg gcgtgatctc gggttcaccg gcaacctccg  1860
cctcccaggt tcaagcaatt ctcctgcctc agcctcccca agtaggtggg actacaggtg  1920
ccccgccacc acacccggct aatttttgca tttttagtaa tgacaggggt ttcacccatg  1980
ttggccaggc tggtctccca actccctgac cctcaggcga tcccacctgt cttggccttc  2040
taaagtgcct gggattacag gcgtgagcca ctgtgccctg gccgacaatt tacttgtctt  2100
agtattatat gtagatatgt gattttttga gactgtattt ttagagctga atttttgact  2160
aaagacttaa actttgataa attatggaag atacattaga gaattttagt tagatattga  2220
ctttatcttt aggctgttgt atgtttcaga tgcaaacata ttcaagtttc atatatttaa  2280
aaaaaaa                                                            2287
```

<220>
<221> misc_feature
<222> (37)...(1506)
<223> similar to gi5410286 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

        <400> 6450
ggtgctggat ctttccactg tggtggaatt catgaaatgg aagaaaaaga acaggagctc   60
caggcaaaaa tagaagcttt gcaagctgat aatgatttca ccaatgaaag gctaacagct   120
ttacaagtac ggttagaaca tcttcaggag aaaactctta aagaatgcag cagcttggag   180
aagctgatcg tcgaagggca tctaaccaaa gcggtagaag aaacaaagct ttcaaaagaa   240
aatcagacaa gagcaaaaga atctgatttt tcagatactc tgagtccaag caaggaaaaa   300
agcagtgacg acactacaga tgcccaaatg gatgagcaag acctaaatga gcctcttgcc   360
aaagtgtccc tttttaaaga tgacttgcag ggtgcacagt cagaaattga ggcaaagcaa   420
gaaatacagc atcttcgaaa ggaattgatc gaagcccagg agctagctag aacaagtaaa   480
caaaaatgct ttgaacttca agctcttttg gaagaagaaa gaaaagccta tcgaaatcaa   540
gttgaggaat ccactaaaca aatacaggtt cttcaagccc aattgcagag gttacacatc   600
gatactgaga atctccggga ggagaaggac agtgaaatca caagtactag agatgaattg   660
cttagtgccc gagatgaaat tttgctcctt catcaagcag cagcaaaggt tgcctctgag   720
cgggacactg acattgcttc tttacaagaa gagcttaaga aggtgagagc tgagcttgag   780
cggtggcgga aagcagcgtc tgaatatgag aaagaaatca caagtctgca aaacagtttt   ·840
cagcttagat gtcaacagtg tgaggaccag cagagagaag aagcaacaag gttgcaaggt   900
gaactagaga agttgagaaa ggaatggaat gcattggaaa ccgaatgcca ttctctaaaa   960
agggaaaatg ttttgctatc atcagaactg caacggcaag aaaaagaatt gcacaattct·   1020
cagaagcaga gtttagagct taccagtgat ctcagcatcc ttcaaatgtc taggaaagaa   1080
·cttgagaatc aagtgggatc cttgaaagaa cagcatcttc gggattcagc tgatttaaaa   1140
actcttctca gtaaggcaga aaaccaagca aaggatgtgc agaaagagta tgaaaagaca   1200
cagactgtac tctcagaact gaagttgaag tttgaaatga ctgagcagga aaagcagtca   1260
atcacagatg agctcaaaca gtgtaaaaac aacctgaagc tgctccgaga gaaaggaaat   1320
aatccttcca tattacaacc cgtcccagcc gtattcatcg gcctattcct ggctttcctg   1380
ttttggtgtt tcggtccatt gtggtagaga aagaaaccct ggccctggat gcccatgttg   1440
gctgccctgg ttgcagtaac agccatcgtg ctgtacgtgc caggtctggc cagagcttct   1500
ccatgagagc gttccttgag tccgtacacc gtcctccctc tagaagctgg catcacactc   1560
atgctgggga caaacagaac cattttcttc ctctttacct cttaaaacag cagaagtaca   1620
agaatacagc tgtagggtca ttgctttaaa ttatataaaa tgtatctgcc tataaagaag   1680
atataaaatt gtgactttat tctactgtaa gcaataattt gcttgcaatt tttcatgtaa   1740
tttttaaatt agtatgttaa gattctgaat attatggggg cctaaagtag gcttcttggt   1800
acaccagatt atttataaca ttaaatttat gagtatttta ctctgaattc tgatcaccag   1860
ataattcatt tttctgattt gataactacc caaaccaaac aaccaataca tacatggaa   1920
gagaggccct gtgtgctcag tgcctatcag tttgaaatat atacacatat atatatttt   1980
tacatattta cgccattttt acttgttatg aaaccactga gctattggga acaagactta   2040
gagacaacta tttgcgtgga tttttttttt tttaaggaaa aatacgtttg gaaaataaac   2100
tgttatggtg ataatttggg gaatatgtgc acgcttgttc agccttaatg tgacttgaag   2160
atgtggagga catcaacttt gaaaaacttt ccatgagagt gtattttctt gatcaaactg   2220
aagtatttct gggagcaaaa acatagtaat tacacaattt cagtgcagtc aaccaaaatg   2280
ttgagtcaat tggaatgtaa tttattaaac catgtattta aagagatatt tttctttaaa   2340
agccaagtta ctttctcata tacagcattt taggaagcat gatttttttt ttctatcatc   2400
tattcctcca agcatgttta attgaagaaa gtattaatat ctctttagat aagcttgtat   2460
tgacctaatt tggtttatga tgtgtcagag ctaattcatg ttcagggtga gcgttgtacc   2520
taccaacaaa tttcctggtt gggtatgcaa atggttattt tcttttttatt gttgttaatt   2580
gggactttct gttaatgaaa agcactattc ccaagattaa tagtgttcta tgcacaatga   2640
agcacctaaa aacactgctt gatattataa atttaaaaca caagtgaaag tttagccatg   2700
gtttttgtgcg gcatcatagt tatgtcaata aagtttattt aggtcataga atatcctaaa   2760
gtatcacata gttaaatttt tcagtcagtg aagaccggga gggaatgtca gtgaattggc   2820

                          5081

```
ttgaatgttc tgtggcaatc cacaggtcta gccaaatatt gaaataggag tttagggtat    2880
aatttgcctt gtgatgtttg gcagtcactg tttatacttt aaaggttata ttttaagcta    2940
tttgagattg cttttgggaa gatcactaga tttatggagg aattagtcac aaatgacttg    3000
tagaaaatac tgtcatatag ttcatttcat cattttctgt tgcaggaagc cactccacca    3060
cagaatgcta atatgccagt ggtacccagt acctcttgta tataggttat tgcaaatatt    3120
gttctgaaat gcttaacttc agaattacat tttttaaagt aaataattgt tttaaatcta    3180
ttttgtaaag atataaagta caatagaatt tctggagtac agattaaact atttgcacta    3240
acacacgtga cgtgcatgat ttaatacncn agccc                               3275
```

<210> 6451
<211> 1709
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (59)...(882)
<223> similar to gi252483 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6451
```
ggaattcccc ggtgcgaggg agcggtcctt accgagaccc gcccggcccg gcggtgcgat    60
gagcttcttc ggcttcgggc agagcgtgga ggtggaaatc cttctgaacg atgcagagag    120
taggaagcgg gccgagcaca agacggagga cgggaagaag gagaaatatt tcctcttcta    180
cgacggggag acggtctccg ggaaggtgag ccttgccctc aagaaccca acaagcggct    240
ggagcaccag ggcatcaaga tcgagttcat cgggcagatc gctatttcct tcgtgctacc    300
atcagccgcc gcctcaatga tgttgtcaaa gagatggaca ttgtagttca cacactcagc    360
acatacccag agctgaactc ttccatcaag atggaggttg ggattgagga ctgtctgcac    420
attgaatttg agtacaataa atccaaatac cacttgaaag atgtcattgt agggaagata    480
tacttcctgc tggggagaat caaaatcaag cacatggaga tagacatcat caagcgagaa    540
acgacgggta caggccccaa cgtgtaccat gagaatgaca cgatagccaa gtacgagatc    600
atggacgggg caccagtgcg aggagagtcc atcccgatcc ggctcttcct ggccgggtat    660
gagctcacgc ccaccatgcg ggacatcaac aagaagttct ctgtgcgcta ttacctcaac    720
ctggtgctga tagacgagga ggagcggcgc tacttcaagc agcaggaagt ggtgttgtgg    780
cggaagggtg acatcgtacg gaagagcatg tcccaccagg cggccatcgc ctcacagcgc    840
tttgagggca ccacctccct gggtgaggtg cggacccca gccagctgtc tgacaacaac    900
tgcaggcagt aggcccccag ggccgagaag atgctgggca cccacccagc accccatct    960
accaacacca gcggctgggg gcgggggcgg accttgtgag gctcagttga cccgttactt   1020
gcaacctgaa aacaaatcat gttttgact taaattcttt tctctggaga acccaagggg   1080
cttggggtgg gaagcagtct ctccttggga ttctgcggcc gatgtgggat agaagaggta   1140
gcatcctgga agccagcctc tctggggaac atgagccccc ttcctcgggg ggctgccttg   1200
cgtcttagag gagggagagc agagagcacg catccttggc tcctggctct ctgagcttcc   1260
tgatacagga tctgagcatg tccctgggat tctgagctgc caacagggcc ctgggtagtc   1320
acatcttgta ctcccctttg ctgtcccgga ggtagtggca ggagttgggc cagcccccac   1380
taagtggcag gggaagactc acgattggga agctacctct ttgggaatct tggatgtggt   1440
gatctcaagt tcccacaggc cacctccttc tggccactca ctgctgggac ccaggcacct   1500
cccttctcca tcctctctgg attgtcagta atgtcctgga acagaagcct gtgggatggc   1560
cttgggcacg gagaagccct ggggtcagtg tcgtgcacgg atggcggcag tgttgaaccc   1620
aggaggctga acccggccca ccacggaaga tgagtgcatg caaccgcct gccttcacgt   1680
cgctccactt ggtaaccca aggtctggg                                      1709
```

```
<210> 6452
<211> 2134
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (992)...(1772)
<223> similar to gi4835268 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6452
gaacttccgg gtcgacccac gcgtccgctt ggacgagcct ggagagcctc cctccccctc     60
gctcaccacc acctctactt cgcagtggaa gaaacattgg tttgtgctga cagattcaag    120
tctcaaatat tacagagact ccactgctga ggaggcagat gagctggatg gtgagatcga    180
cctgcgttcc tgcacggatg tcactgagta cgcggtgcag cgcaactatg gcttccagat    240
ccacaccaag gatgctgtct ataccttgtc ggccatgacc tcaggcatcc ggcggaactg    300
gatcgaggct ctgagaaaga ccgtacgtcc aacttcagcc ccagatgtca ccaagctctc    360
ggactctaac aaggagaacg cgctgcacag ctacagcacc cagaagggcc ccctgaaggc    420
aggggagcag cgggcgggct ctgaggtcat cagccggggt ggccctcgga aggcggacgg    480
gcagcgtcag gccttggact acgtggagct ctcgccgctg acccaggctt ccccgcagcg    540
ggcccgcacc ccagcccgca ctcctgaccg cctggccaag caggaggagc tggagcggga    600
cctggcccag cgctccgagg agcggcgcaa gtggtttgag gccacagaca gcaggacccc    660
agaggtgcct gctggtgagg ggccgcgccg gggcctgggt gcccccctga ctgaggacca    720
gcaaaaccgg cttagtgagg agatcgagaa gaagtggcag gagctggaga agctgcccct    780
gcgggagaat aagcggggtgc ccctcactgc cctgctcaac caaagccgcg gagagcgccg    840
agggccccca agtgacggcc acgaggcact ggagaaggag gttcaggctc ttcgggccca    900
gctggaggcg tggcgtctcc aaggggaggc tcctcagagt gcactgagat cccaggagga    960
tggccacatc cccccgggct acatctcaca ggaggcatgt gagcgcagcc tggcagagat   1020
ggagtcctcg caccagcagg tgatggagga gctgcagcgg caccacgagc gggagctgca   1080
gcgcctgcag caggagaagg agtggctcct ggctgaggag acggcagcca cggcctcagc   1140
cattgaagcc atgaagaagg cctaccagga agagctgagc cgagagctga gcaaaacacg   1200
gagtctccag cagggcccgg atggcctccg gaagcagcac cagtcagatg tggaggcact   1260
gaagcgagag ctgcaggtgc tatcggagca gtactcgcag aagtgcctgg agattggggc   1320
actcatgcgg caggctgagg agcgcgagca cacgctgcgc cgctgccagc aggagggcca   1380
ggagctgctg cgccacaacc aggagctgca tgggccgcct gtcagaggag atagaccagc   1440
tgcgcggctt cattgcctcg cagggcatgg gcaatggctg cgggcgcagc aacgagcgga   1500
gttcctgcga gctagaggtg ctgcttcgcg taaaagaaaa cgaactccag tacctaaaga   1560
aggaggtgca gtgcctccgg gacgagctcc agatgatgca gaaggacaag cgcttcacct   1620
cgggaaagta ccaggacgtt ctatgtggag ctgagccacc atcaagacca cggctctgag   1680
cgggagattc gagcagctga aggagcacct gcgtccttgc catggccggc cctccaggag   1740
aaggagtcga tgcgcaacag cctggctgag tagaggtccc gcccagctgc agaccctcca   1800
ggctggagga ccagccgccc tccttccctc ctggatggaa gtaaaaagcc aagctttctc   1860
cccaccctct gtgggccaca cgtgcacttg cacccaccac acacacacac acacacac    1920
acacacacac agacacacag acacatacgc acacgtgc acacatgtac acacggatac    1980
acacacacac acacacacac acacactgca tatctgagca cgcccctcgc actgggtctc   2040
accttgcacc ttcttcagga ttttatatgt gaagagattt ttatatagat tttttccttt   2100
tttttccaaa acactttata ctttaaaaaa aaaa                                2134
```

5083

<210> 6453
<211> 5612
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(2673)
<223> similar to gi1263890 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6453
acgacgattt cgcgttggta aaagggtcca gagtggcagt aaaggaggaa gatggcgggg   60
tgcaggggggt ctctgtgctg ctgctgcagg tggtgctgct gctgcggtga gcgtgagacc   120
cgcacccccg aggagctgac catccttgga gaaacacagg aggaggagga tgagattctt   180
ccaaggaaag actatgagag tttggattat gatcgctgta tcaatgaccc ttacctggaa   240
gttttggaga ccatggataa taagaaaggt cgaagatatg aggcggtgaa gtggatggtg   300
gtgtttgcca ttggagtctg cactggcctg gtgggtctct ttgtggactt ttttgtgcga   360
ctcttcaccc aactcaagtt cggagtggta cagacatcgg tggaggagtg cagccagaaa   420
ggctgcctcg ctctgtctct ccttgaactc ctgggtttta acctcacctt tgtcttcctg   480
gcaagcctcc ttgttctcat tgagccggtg gcagcaggtt ccgggatacc cgaggtcaaa   540
tgctatctga atggcgtaaa ggtgccagga atcgtccgtc tccggaccct gctctgcaag   600
gtccttggag tgctgttcag tgtggctgga gggctcttcg tggggaagga aggccccatg   660
atccacagtg gttcggtggt gggagctggc ctccctcagt ttcagagcat ctccttacgg   720
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taccttgttc agtctagagg agggttcgtc cttctggaac caagggctca cgtggaaagt   900
gctcttttgt tccatgtctg ccaccttcac cctcaacttc ttccgttctg ggattcagtt   960
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cggcatttct gttccaagtg gccttttttgt gccttctctg ctgtgtggag ctgcttttgg   1560
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gtgggcctgc gaggcgtgcc gcttctggaa tgggagacag aggtggaaat ggacaagctg   1860
agagccagcg acatcatgga gcccaacctg acctacgtct acccgcacac ccgcatccag   1920
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cgcggtaacg agaaggagtt catgaagggc aaccagctca tcagcaacaa catcaagttc   2040
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tcctacccat ccagcgagct acggaacatg tgtgatgagc acatcgcctc tgaggagcca   2160
gccgagaagg aggacctcct gcagcagatg ctggaaagga gatacactcc ctaccccaac   2220
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5084

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gactacccgc ggtaccccga catccacgac ctggacctga cgctgctcaa cccgcgcatg    2460
atcgtggatg tcaccccata catgaaccct tcgcctttca ccgtctcgcc caacacccac    2520
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gctgtgggag agatcgtggg gatcatcaca cggcacaacc tcacctatga atttctgcag    2640
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ggggcattgg aaagattccc agttacccac tcactcagaa agccgggagt catcggacac    2820
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cccgggctgc actcccgagc agtgttccct ggcccatctt tgctactttc cctagagaac    3060
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tggggctgct tcaaggtctt ttctagctga ttgtggcccc tccattttcc gcattttctt    4320
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gtatggcatt tgtgatgcag aattatgcac tgacatgacc ctgggtgaca ggaaagcctt    5340
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gctctgcgga ccttggccat tgccgcagtc gcagcttcct tttttctgtt tgcactgttt    5460
gtttgtatga tgttagctaa ttccactgtg tatataaatt gtattttttt taatttgtaa    5520
aatgctattt ttatttgaac ctttggaact tgggagttct cattgtaacc ctaacatgtg    5580
agaataaaat gtcttctgtc tcaaaaaaaa aa                                  5612
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5085

<210> 6454
<211> 857
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (742)...(321)
<223> similar to gi5817185 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6454
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cactggctag gagtgcccca tgcccagttc ttagagaccc ttgatagctc ctagaagaca   120
ggaggctgcc gtggtcaaga agggccaagc cttgaagtct cacggcaccc cctgtggtgg   180
aggtataagg ctcaggggcc aactactggg tcttgcagtc cccatcgttg ctgtgggctg   240
tcttcacctt ctttagttcc ttctgtagct cagactcggc caccacaacc tcctttggct   300
tctggtaaga gatgatcagg gtgcagttgg cgtgggcaaa gctcagcaag gcgtcatcca   360
gaggtagctg gtgtctatct agatcaggaa tggagaactt cttgtagtac ttcttgttgg   420
ttgttctgac aatgatgcag cgctccttct ggtccacaga gacactatag acatccttag   480
gataggggag gtttcgaatc cgccactgga aactcatctt ggtgtccttg cgcatgaaga   540
taggattggc attgctttcc ttgatgagtt caggccccag gttccctgct cctaggggcg   600
ctgggtctcc tacttcaagc tgccactggc ccatggctcc cagggcactt ttcacacgcc   660
actttctcac aagtagttca ctcgtcttct cgtcatattc ttcagccatt tccttgccgt   720
ctgggaataa atagtgaacc ttccttctcc cgtcctgcag cagcgcagtc ttctgggctg   780
tccgcagact ctccaaccag cccgtcaccg ccatctttcc cctgctaagc agcacgccca   840
gccgctgcca tggcaac                                                  857
```


<210> 6455
<211> 3402
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (235)...(2092)
<223> similar to gi4774232 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6455
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ctaaagggcg gtcgtccggg gttaggttga ggggggcgt cggtccgttc tgggcggggg    60
atgactcaca gcccatccca tctccccgac gccgcccgcc cgcgcagtgc tagctccatg   120
gcttagcgga ggaggcggca gtggcgagct ggggggaggg gggactctta ttttgttagg   180
```

```
gggaccgggc cgaggcccga ccggcctggc agggctcgcc cggggccggg cgtcatgtct    240
catgcggccg aaccagctcg ggatggcgta gaggcccagc gcggagggcc ctcgagccgt    300
gttcgtgctg ttggaggagc gcaggccggc cgactcggct cagctgctca gcctgaactc    360
tttgcttccg gaatccggga ttgttgctga catagaatta gaaaacgtcc ttgatcctga    420
cagcttctac gagctcaaaa gccaaccctt acccctccgc tcaagcctcc caatatcact    480
gcaggccaca ccagccaccc cagctacact ctctgcatcg tcttctgcag ggggctccag    540
gaccctgcc atgtcgtcat cttcttcatc gagggtcttg ctgcggcagc agctaatgcg    600
ggcccaggcg caggagcagg agaggcgtga gcgtcgggaa caggccgccg cggctccctt    660
ccccagtcct gcacctgcct ctcctgccat ctctgtggtt ggcgtctctg ctggggggcca    720
cacattgagc cgtccacccc ctgctcaggt gcccagggag gtgctcaagg tgcagaccca    780
tctggagaac ccaacgcgct accacctgca gcaggcgcgc cggcagcagg tgaaacagta    840
cctgtccacc acactcgggc ccaagctggc ttcccaggcc ctcaccccac cgccggggcc    900
cgcaagtgcc cagccactgc ctgcccctga ggctgcccac actaccggcc cacaggcag    960
tgcgcccaac agccccatgg cgctgctcac catcgggtcc agctcagaga aggagattga   1020
tgatgtcatt gatgagatca tcagcctgga gtccagttac aatgatgaaa tgctcagcta   1080
tctgcccgga ggcaccacag gactgcagct ccccagcacg ctgcctgtgt cagggaatct   1140
gcttgatgtg tacagtagtc aaggcgtggc cacaccagcc atcactgtca gcaactcctg   1200
cccagctgag ctgcccaaca tcaaacggga gatctctgag accgaggcaa aggcccttтt   1260
gaaggaacgg cagaagaaag acaatcacaa cctaattgag cgtcgcaggc gattcaacat   1320
taacgacagg atcaaggaac tgggcactct catccctaag tccagtgacc cggagatgcg   1380
ctggaacaag ggcaccatcc tgaaggcctc tgtggattat atccgcaagc tgcagaagga   1440
gcagcagcgc tccaaagacc tggagagccg gcagcgatcc ctggagcagg ccaaccgcag   1500
cctgcagctc cgaattcagg aactagaact gcaggcccag atccatggcc tgccagtgcc   1560
tcccactcca gggctgcttt ccttggccac gacttcggct tctgacagcc tcaagccaga   1620
gcagctggac attgaggagg agggcaggcc aggcgcagca acgttccatg taggggggggg   1680
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cctgcacttt cccagcgacc acctgggggga cctgggagac cccttccacc tggggctgga   1800
ggacattctg atggaggagg aggaggggggt ggtgggagga ctgtcggggg gtgccctgtc   1860
cccactgcgg gctgcctccg atccctgct ctcttcagtg tccctgctg tctccaaggc   1920
cagcagccgc cgcagcagct tcagcatgga agaggagtcc tgatcaggcc tcacccctcc   1980
cctgggactt tcccacccag gaaaggagga ccagtcagga tgaggccccg ccttttcccc   2040
caccctccca tgagactgcc ctgcccaggt atcctggggg aagaggagat gtgatcaggc   2100
cccaccccctg taatcaggca aggaggagga gtcagatgag gccctgcacc ttccccaaag   2160
gaaccgccca gtgcaggtat ttcagaagga gaaggctgga gaaggacatg agatcagggc   2220
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agggaaggag acaggatgag gtctcgaccc tgtcccctag ggactgtcct agccaggtct   2340
cctgggaaag ggagatgtca ggatgttgct ccatcctttg tcttggaacc accagtctag   2400
tccgtcctgg cacagaagag gagtcaagta atggaggtcc cagccctggg ggtttaagct   2460
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agacccagcc ccttcccctg ggaactctcc tggccttcta ggaatggagg agccaggccc   2580
caccccttcc ctataggaac agcccagcac aggtatttca ggtgtgaaag aatcagtagg   2640
accaggccac cgctagtgct tgtggagatc acagccccac ccttgtccct cagcaacatc   2700
ccatctaagc attccacact gcaggggagga gtggtactta agctcccctg ccttaacctg   2760
ggaccaacct gacctaacct aggagggctc tgagccaacc ttgctcttgg ggaaggggac   2820
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ccttgggcag agtcctgcct tcttccttga ggggcagttt gggaaggtga tgggtattag   2940
tgggggactg agttcaggtt accagaacca gtacctcagt attcttttttc aacatgtagg   3000
gcaagaggat gaaggaaggg gctatcctgg gacctcccca gcccaggaaa aactggaagc   3060
cttcccccag caaggcagaa gcttggagga gggttgtaaa agcatattgt accccctcat   3120
ttgtttatct gattttttta ttgctccgca tactgagaat ctaggccacc ccaacctctg   3180
ttccccaccc agttcttcat ttggaggaat caccccattt cagagttatc aagagacact   3240
ccccctcca ttcccacccc tcatacctac acccaaggtt gtcagctttg gattgctggg   3300
gccaggcccc atggagggta tactgagggg tctataggtt tgtgattaaa ataataaaag   3360
ctaggcgtgt ttgatgcgct tttaactttg gcaaaaaaaa aa                       3402
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5087

<210> 6456
<211> 1578
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1547)...(700)
<223> similar to gi4960167 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

        <400> 6456
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actttaaaga cctcacacac acacagtata aacacctggg taaggttttg ttcgtgtcca   120
tgttgacacc ggaactaccg ttaaagtgca agttttgttt tgtgttcctt tgtgcagttt   180
cactcacatg taaacaagtc acttggctat gatttgaccc acgccccccc gcttagtttc   240
gggagggcag aggctctacc ggctgtcaca gcaacccgga atcacagaca agataatgcc   300
ccgtgggtcc tgaccctcaa gcgggcatga cggtttcttg aagcctagca gaggctggat   360
aacttcacat ccctcccca ccccgcgctc actcttaggt ctttgagaag ataaatccac   420
cctcggctgg gccctcgctc ccaaagttat ggggggtggcg ggcctcaatg ggggaccggg   480
ggtgggggaat agtcccagtc ttggcccgtt ctctttcctt ccggagcaga tgaccatccc   540
ttctcggttc agtggcgcct ccccagtgct ggggggcggat cgccgggagg ggagacgcca   600
gtccgcgcgc gctcccggcc tggggcgcac cgggccgttg gatttgactt aacaaaaagg   660
tcctccttag gttgtgtcgc cagcgcggcg gggctcctag ctgatgacgc agcgctcctt   720
gtccttggcc tggctgccgg cgctggcctt ctcgcggatg tacatgaggt cgctgtgtac   780
gctgggccgg cgcgcgaagg gtgccacgat gccaaaggcg tcgcccgggt cgccgccgcc   840
gccgccgctg ccggcccgca gcaggcttct tgttccgcag cgccttcttg tgcaggcacg   900
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gccatggcga agagcgcgcg gaacatctgg tccaggctgc tgttcttctt ggccgagatc   1020
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tcgagctggt agacctcgcc gcggatggag tagaacttgc ggtggaagtc ctcgatggta   1380
ggcgtgtagg cgtcctcgaa gcggccggtg aggaagcgcg acacgatggc cgtcttgccc   1440
accttggacg agccgaggat gaccatgcga tagcagttct tggccgggat actcagctcc   1500
gagtcgctcg ggcacatctt cttgatcatc gcggccagtt tcattgggca gaggggccgc   1560
gagggcgggc gcggggcc   1578

        <210> 6457
        <211> 3281
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (702)...(2987)

5088

<400> 6457

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cccacaggga gccaggagcc tgtgcgcagg cccatgcgca agtccttctc ccagcccggc     180
ctgcgctcgc tggcctttag gaaggagctg caggatgggg gcctccgaag cagcggcttc     240
ttcagctcct tcgaggagag cgacattgag aaccacctca ttagcggaca caatattgtg     300
cagcccacag atattcgagg aaaattcgaa ctattgctct ttaacgattg ggccagtctg     360
aagtttacct catcagtcct gacaccaaaa aaattaggca ttgggagaaa aattttttaag     420
ggagatatcc ttttgctctc agggcatcag acaccgtgga ccacttttgg ttttatctgt     480
cgggagtctt ccggaggtgg cggctttcat tttgtctgtt acgtgtttca gtgcacaaat     540
gaggctctgg ttgatgaaat tatgatgacc ctgaaacagg ccttcacggt ggccgcagtg     600
cagcagacag ctaaggcgcc agcccagctg tgtgagggct gccccccctg caaagccctg     660
ccacaagctc tgtgagagga tagagggaat gaattcctcc caaaacaaaa ctagaactgc     720
aaaagcaccc tgacgacatt aacccaatca ggagcaggcg actattttg aagaggttca     780
gaaattgaga ccgagaaatg agcagcgaga gaatgaattg attatttctt ttttgagatg     840
tttatttgaa gagaaacaga aagaacacat ccatattggg gagatgaagc agacatcgca     900
gatggcagca gagaatattg gaagtgaatt accacccagt gccactcgat ttaggctaga     960
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gaagacccgg aggcattcct ggaggcagca gatattcctc cgagtagcca ccccgcagaa    1500
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aaggacatct cgtgagctcc gagagctgtg gcaaaaggct attcttcaac agatactgct    1680
gcttagaatg gagaaggaaa atcagaagct ccaagcctct gaaaatgatt tgctgaacaa    1740
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ggaaaagatg cttagcactc caggaagatc aaaaattaag tttgacatgg aaaaaatgca    1860
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tttagatact  aaatcgtccc  ttctccagtc  ctgattactg  tacacagtag  ctttagatgg    3240
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<210> 6458
<211> 4956
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (153)...(4075)
<223> similar to gi|136404 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6458

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5090

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<210> 6459

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<211> 4704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (13)...(1731)
<223> similar to gi4884361 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6459
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ttgtcggatt cgggagagga gcctcggggg gaggctgagg ccccccacca tggcacgggt       180
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cagtcagagg aaaggagcag tggcttccgg ttgaagccac caacgctgat ccacggccaa       480
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<210> 6460
<211> 5773
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1318)...(4281)
<223> similar to gi3882237 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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gggagccagc cggggggacca cagtgctgga caggccaacc aactcaaact tgaagacatg      240
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gaatacactg ttaatattga gatcagtttt gaaaatgcat ccttcctgga tcctatcaaa      480
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attttgagca taaatgtgac aacagtctgc agacctgctg gaaatgaaat ctggtgctcc      600
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<210> 6461
<211> 583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (548)...(99)
<223> similar to gi2570154 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5095

<400> 6461

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gtttcccaca tgacttcagg agtccctgga ttttccggct tctctcctct tcactctcta     300
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gctcctccag gcgcccgtcg atccacttct ccacgtccag ccgccgctgc agctcccgcc     420
ggtcatactt gacggtgacg cgcgcgtgcc gcttctgcag cccccacggga ctgcccctg     480
gcccgcgggc ccgcgatgga gactgcagct tgctcagcac gcgcttgccc agccgctgag     540
ctgccatcgc gctgctggac ccagcctggc ccggacgcgt ggg                      583
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<210> 6462
<211> 4790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (69)...(1134)
<223> similar to gi5689473 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6462

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atttcctgcg cgttctcttt ggcttcctct accgcaagac agacttctat cgcttgctgc     180
gccacccatc ggaccgcatg ggcttcccgc ccggggccgc gcaggccttg gtgctgcagg     240
tattcaaaac ctttgaccac atggcccgtc aggatgatga gaagagaagg caggaacttg     300
aagagaaaat cagaagaaag gaagaggaag aggccaagac tgtgtcagct gctgcagctg     360
agaaggagcc agtcccagtt ccagtccagg aaatagagat tgactccacc acagaattgg     420
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gttcacagga ggcagaagct ccaggagcag ttgctggtgc tgctgaagtc cctaggggaa     540
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gctgtccgag agaactacac ctggtcacag gactatactg acctggaggt cagggtgcca     660
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5097

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<210> 6463
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (373)...(640)
<223> similar to gi1389766 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6463
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gtgagggttc ctgtgagccg tgccctacgt cgtggctgcc cttcggggggc tcctgctact     180
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cacatctggc gatgtagggg gcctggggga gcaggacttc ctgagtcgtg acactagtgc     300
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ggccacaggt tagactctag aggacatgtt ttgaggccga ggtgggcgga tcacctgagg     480
tcaggagttc aagaccagca tgggaaacgt ggcgaaaccc catctctact aaaaatacaa     540
aaaattagcc gggcgtggtg gcacacgcct gtaatcccag ctaaccctgg atgctgaggc     600
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<210> 6464
<211> 4866
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (15)...(4776)
<223> similar to gi4589590 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


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tccgccgcac caagagctgc cgcaccagta atcggaaaag cctcatcctg accagcactt     180
cacccacgct accgagaccc cactccccgc tgccaggtca cctaggcagc agtcccctgg     240
acagcccccg aaacttctcc cccaacaccc ccgcccactt ctcgtttgcc tcctcccgaa     300
gggcggacgg acgccggtgg tctctggcct cgctcccttc atctggctat ggcaccaaca     360
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5098

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accagcccac ggtggacgag ctccacttcc tctccaaaca cttcgggagc accgagagca    480
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gccccgggcg ctccccctcc tcctacgaca acgagatcgt gatgatgaat cacgtctaca    600
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accacgtgaa ctcctatgac gaggatgaca cgacggagga ggagcccgtg gaaatccgcc   2160
agttctcttc ctgctctccg cgcttcagca aggtgtatag cagcatggag cagctgtcgc   2220
agcacgagcc caagacccca gtagcagctg cagggagcag caagcgggag ccgagcacca   2280
agggccccga ggagaaggtg gccggcaagc gggaggggct gggcggcctg accctgcgtg   2340
agaagacctg gagagggggc tctccggaga tcaagcgatt ctccgcgtcc gaggccagtt   2400
tcctggaggg agaggccagt cccccctttgg gcgcccgccg ccgtttctcg cgcgctgctgg   2460
agcccagccg cttcagcgcc ccccaagagg acgaggatga ggcccggctg cgcaggcctc   2520
cccggcccag ctccgacccc gcgggatccc tggatgcacg ggcccccaaa gaggagactc   2580
aaggggaagg cacctccagc gccggggact ccgaggccac tgaccgtcca cgcccaggtg   2640
acctctgccc accctcgaag gatggggatg catcaggccc aagggctacc aatgacttgg   2700
ttctgcgccg ggcgcggcac cagcagatgt caggggatgt ggcagtagag aagaggcctt   2760
ctcgaactgg gggcaaagtc atcaaatcag cctcagccac tgccttatct gtcatgattc   2820
ctgtagtgga cccacatgga agttcacccc ttgctagtcc catgtctcca cgatctctgt   2880
cctccaaccc atcctcacgg gactcctcac ccagccggga ctactcacca gctgtcagtg   2940
ggctccgctc ccccatcacc atccagcgct cgggcaagaa gtatggcttc acactgcgtg   3000
ccatccgtgt ctacatgggt gacacggatg tctatagtgt ccaccacatt gtctggcatg   3060
tggaggaagg aggcccagcc cagggaggca ggactctgtg cctggggacc tcatcaccca   3120
cgtgaatggg gagcctgtgc atggcatggt gcatcctgag gtccgtggag ctgatcctta   3180
agagtggcaa caaggtagca gtgaccacaa cgcccttcga aaatacctct atccgcattg   3240
gtcccgcaag cgcagcagg ctaacaaggc taaaaatggg cttcggaggg aacaagcgac   3300
cctccgccaa ggagggccag gagagcaaga agcgcagctc cctcttccgg aagatcacga   3360
agcagtcgaa cctgctgcat actagccgct cgctgtcgtc gctgaaccgc tcgctgtcat   3420
ccagcgatag tctcccgggc tcgcctacgc acgggctgcc ggcgcgctcg cccacgcaca   3480
gctaccgctc cacgcctgac tccgcctacc taggcgcctc atcccagagc agctccccag   3540
cctcgagcac gcccaactcg cctgcgtcgt cggcgtcgca ccacattcgg cccagcacgc   3600
tgcacggact gtcgccaaag ctccatcgcc agtaccgctc tgcgcgatgc aagtcggccg   3660
gcaacatccc tctatcgccg ctggcacaca cgccgtcccc cacgcaggcg tcaccgccgc  ·3720
cactgccggg ccacacggtg ggcagctcgc acactactca gagcttcccg gccaaactgc   3780
actcatcgcc tcccgtcgtg cgcccgcgcc ccaagagtgc cgagccccct cgctcgccgc   3840
```

5099

```
tcctcaagcg cgtgcagtcg gccgagaagc tgggagcctc tttgagtgcg gacaagaagg   3900
gcgcgctgcg caaacacagc ctcgaggtgg gccacccgga tttccgcaag gacttccatg   3960
gcgagctggc gctgcatagc cttgccgagt ccgacggtga gacgccccca gtcgagggcc   4020
ttggcgcgcc ccggcaggtc gccgtccgcc gcctgggccg acaggagtca cctttgagcc   4080
tgggcgcgga cccgttgctg cccgagggtg cctccaggcc accagtgtcg agcaaggaga   4140
aggaatcccc ggggggcgcc gaggcgtgca ccccacccg cgcgacgacc cccggtggcc    4200
ggaccctgga gcgggacgtc ggctgcacgc ggcatcagag cgtgcagacg gaggatggca   4260
ctggcgggat ggccagggct gtggccaagg cggcgctgag cccggtgcag gaacacgaga  .4320
caggccggcg cagcagctct ggcgaggcgg gcacacccct ggtacccatt·gtcgtagagc   4380
ctgcgcggcc cgggctaag gctgtggtgc ctcagcctct gggcgcggac tccaaggggt    4440
tgcaggaacc cgcacccctg gcgccttccg tgcccgaggc ccccggggc cgggagcgct    4500
gggtgttgga ggtggtggag gagcgcacca cgctgagcgg tcctcgctcc aagcccgcct   4560
ccccaaagct ctccccggag ccccagacac cctccctagc cccagcgaag tgcagtgcac   4620
ccagcagtgc agtgacccca gtcccacccg catccctctt gggctcgggc accaagcctc   4680
aagtgggggct gaccctcccgg tgccctgctg aagctgtgcc cccagcaggc ctgaccaaaa  4740
aaggagtgtc cagtcccgca ccccggggac catagccaag ggggtcatcg gccccgcgct   4800
gtacagcctc cgtatacata tgtacacata taaataaagt gcgtccgtgc tgcgtgaaaa   4860
aaaaaa                                                               4866
```


<210> 6465
<211> 1677
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1443)...(451)
<223> similar to gi3882225 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6465
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tttttttttt ttgagacaaa gtctcactct gtagccaggt gctggggtgc agtggcatga     60
tctcggctca ctgcaacctc cgcctcctga ggtcaagtga ttctcctgcc tcagcctccc    120
aaatagctgg gactacaaga gtgcgccacc acgcctagct aattttgta tttttagtag     180
agacggggtt tcaccttgtt ggccaggctg gtctttaact cctgacctca ggtgatccac    240
ccgcctcggc ctcccaaagt gctgggatta caggcataag ccaccacgcc cagccaggaa    300
agtatttaaa aacaaattaa gcaaagatta taaaagtttt tggagtaaca catttcccga    360
aatgatcacg atccacatca agtctgagcc.atgttgacat ccccacgtcg gggcccttcc    420
tggtggtcga ggaatcttca gaggtctcta aaatatatta aaaatgtccc aacatttcag    480
gacattccac cggcttttct tgctgggctt cctggttttc ttcttgggct ttctggtttt    540
cacttcctct tccactttgg tcttttctgt tgcttcttct gcaggtgcag aggaaggact    600
tgctgacatc tgctggtggc tgcctgtaat ggtggagtct tccaattgct ttgccagtgt    660
ggctgggtcc acctgcatca tgtgaacccc tgtggcttcc tcagagactg tctgctctgg    720
cacatgctcc tccaggtctt ccaggtcact ctttgccagc gtggctgggt ccacctgcat    780
catgtgaacc cctgtggctt cctcagagac tgtctgccct ggcacatgct cctccaggtc    840
ttccaggtca ccacgttgtg gaactcccaa ggatgtcttc acctcctctg ggtccctcct    900
cctcgccgtt gtaactggac agctcctgaa gtacatccct gatcagaagt tcggccagtg    960
tgtctgggtc cccctccatc atgtgaactt ctgtggcttc ctcagagact gtctgccctg   1020
gcccatgctc ctccaggtct tccaggtcac cgttggtttg ggtgcctgcg tctgcatggg   1080
caacagtgag gagactctga ttggatgctt cagggagatg ttctgctata aactcctcta   1140
```

```
gatgatcttc tgatggaaag catacccttt tcttcacaga gcctggcaac gtctccgaga    1200
gtatctcggg tggacacaat ggcttgccca aggagccttc gtcacgctca cgttgtggaa    1260
ctcccaagga tgtcttcatc gcctcttggt acttcttcca tgtgctgtat aggtggagct    1320
cccgtagtcg ccgtagttgc cgtttcatct caatgtctct ctctgtgtct ttgtccacca    1380
tatgaacgcc caggacatct tcagatgaag cttcctgcac caggtcctca tcgtaatcgt    1440
gttatccagg atggtgtcga tctcttgacc aagtgatcca cccgcctcgg cctcccaaag    1500
tgttggtatt acaggcgtga gccactgtgc ccagcccctg ggatggcctc tatgagggtg    1560
gctggctcca attagcacac gtgtaagcaa actggctggc cttgatgagg acggctaggg    1620
acatctgggc tggctgtcac gtgaataaca gaaatcttct tggctggctt agatgag       1677
```


<210> 6466
<211> 1058
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)...(565)
<223> similar to gi4884084 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6466
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agatggccgc gctcctggcc gcctagagcc ggagcggccc gcggagctgc ggaggcagcc      60
atggtcgggg cgctgtgcgg ctgctggttc cgcctgggcg gggcccgccc gctcatcccg     120
ttgggcccga ctgtggtaca gacctccatg agccggtccc aggtagccct gctgggcctg     180
agtctgctgc tcatgctcct actgtatgtg gggctgccag gccccctga gcagacttcc      240
tgcctctggg gagaccccaa tgtcacagtc ctggctggtc tcacccctgg caactcgccc     300
atcttttacc gcgaggtgct cccactcaac caggcacaca gggtggaggt ggtgctgctt     360
catggaaagg cctttaactc tcacacgtgg gagcagctgg gcacactgca gctactgtca     420
cagaggggct accgggccgt ggcccttgac cttccaggtt ttgggaactc ggcaccttca     480
aaggaggcaa gcacagaggc agggcgggca gcgctgctgg agcgggcgct gcgggacctg     540
gaggtacaga atgccgtgtt ggtgagcccc tcgctgagtg gccactatgc cctgcccttc     600
ctgatgcgag gccaccacca gctacatgga tttgtgccca tcgcacccac ctccacccag     660
aactacaccc aggagcaatt ctgggctgtg aagactccaa cccttatcct gtatggagag     720
ctggaccaca tcctggctcg agagtcactg cggcagctcc gccacctgcc caaccactct     780
gtggtgaagc tacgcaatgc aggccatgcc tgttacctcc acaagccgca agacttccac     840
cttgtcctgc ttgccttcct tgaccatcta ccttgaacta acccactccc agctcccagc     900
ctggcatgag cttggacagt ctggaccgcc accctccctg aaccagggag acagcctctg     960
ggattggagg ccagaggcca gggtcagacc cagccaggac tcctcatttc atctcacaga    1020
cacaataaaa aagcatattt gtcctgccaa aaaaaaaa                            1058
```


<210> 6467
<211> 1068
<212> DNA
<213> Homo sapiens
```

<220>
<221> misc_feature
<222> (478)...(820)
<223> similar to gi5802788 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6467
cacgaggcgg acgctgaggg cttccgcgcg ggccacccgg gtcaagcgcg ctccgccggg   60
aaacttctgc gggcgccggg ctgaagctcc gggcagggct gggaaggaaa ggaaatacca   120
aaatatttgc agactggatc caaatcagga gcccagatga acttaaagaa gcgagcatgg   180
gattcttagt tttttcaagat ccgtacacac gaagccttta atcagcatca actccagtgt   240
ccgtttttctc tggttttgtg aagactgcac aaaactctca tgatggagaa ccaaaggact   300
tagttacctg tttcagtgtc atctaaagtc aactgaaaag tgaagcaggc agtaatacag   360
ccatggaaag aaattcaagt ttatggaaga acctaataga tgaacaccca gtctgcacaa   420
cctggaagca agaggccgaa ggagccattt atcatcttgc cagtatttta tttgtagatc   480
agagtgacag ttgatggcga atttctgcat tacattttcc cccttcagtt cctggattct   540
cctgagtggg attcactgag acccacagag gaaggcattt ttcaggtaac cctcactgca   600
gaaactgatt gtcgatatgt gtcttggagg agaaagaaat tatatctgct ctttgctcag   660
catcgctaca tctcccgcct tttttcagtg ctaattggca gtgacattgc agataaactc   720
tatgccttga atgacagggt atatatagga aaaagatatc actatgatat tcggctaccc   780
aacttctatc aaatgtcaac tccagaaata cgcagatcac ccctgacaca acattttcag   840
aattccagac gatactggtg ataaatgacc atcaaagtct ggaaatttta taagtataaa   900
aaaagactct ctccttcatc attccccagt ggaaatagca aaatacaaaa aaagagctcc   960
ctaatgtttt tataaatcaa attcagaagc gagatgccat tgccaactgt tttattcctt   1020
tcaacaactg cattgtgaat aaactttaca aatttttctt gtaaaaaa   1068

<210> 6468
<211> 1973
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (26)...(1655)
<223> similar to gi3337394 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6468
gcacgaggcc cgcactaagg gaaacatggc tctagcgcgg cccggtgcgg ctctttttccc   60
tcgtgactcg gttgctcctg gcgccgcgac ggggcctcac ggtccgcagt cccgacgaac   120
ccctgccggt ggtgcgcatc ccagtggctc tacagcggca gttggaacag cggcagagca   180
ggcggcggaa cctcccgagg ccggtgctgg ttcgacccgg accgctgctg gtttcggcgc   240
ggcggccgga gttgaaccag ccggcgcgcc tcacactggg ccgttgggag cgcgcgccgc   300
tagcctctca aggctggaag agtcgacgcg cgcgtcggga ccacttctcc atcgagcgcg   360
cgcaacagga ggcgccagcg gtgcgaaagc tctcgtctaa gggcagcttt gctgaccttg   420
gggcctggaa gccccgtgtg ctgcacgcac tacaggaggg ctgcgcctga agtcgttcaa   480
gcccacaacc gtgcagtcta gcaccatccc ctcactactt cgcggccgcc atgtcgtttg   540

5102

```
cgccgcagaa accggcagtg gcaagactct cagctacctc ctgccgctgc ttcaacggct    600
cttgggccca cccaagcctg gactcccttc ctatccccgc gccccgaggc ctggtccttg    660
ttccttcccg agaattggcc caacaggtgc gggctgtggc ccaaccccttg ggccgctcct   720
tgggcctgct ggtgcgggac ctggagggag gccacggcat gcgtaggatc aggctgcagc    780
tgtccagaca gccttcagca gatgtgcttg tggccactcc aggggctctg tggaaggccc     840
tgaaaagtcg actgatcagt ctggagcaac tctccttctt ggtgttggat gaggcagaca    900
cactgctgga tgaaagcttc ctggaactgg tggactacat cttagagaag agccacatag    960
cagaaggccc agctgacttg gaagacccct tcaatcccaa agctcagtta gtgctggtag   1020
gagccacatt tcccgaaggt gtaggccagt tgctgaataa agtcgccagc ccagatgctg   1080
tcaccaccat caccagctcc aagctccact gtatcatgcc tcatgtgaaa cagacatttc   1140
tgagactgaa gggagcagat aaggtggccg agctggtgca catcctcaag catcgtgaca   1200
gagcagaaag gactggtccc tcaggaactg ttctggtgtt ctgtaatagc tccagcactg   1260
tgaactggct gggatatatt ctggatgacc acaaaatcca acacctaagg ttgcaggggc   1320
aaatgccagc cttgatgagg gtaggaatct tccagtcctt ccagaagagc tcccgagaca   1380
tacttctctg cacagacata gcctctcggg gcctggacag cactggtgtg gagctggttg   1440
tcaattatga tttccccccca acgctgcaag attacatcca cagagcaggg agagtgggcc   1500
gtgtggggag cgaggtgcca ggcaccgtca tcagttttgt gacccatccc tgggatgtga   1560
gcctggttca gaagattgag ctggcggctc gccgaaggag aagtcttcca ggactagcat   1620
cctcggtgaa agagcctttg ccccaagcaa cctgattttg acaaatctga ttaaaatgtg   1680
atgctagaac agggatcttt cccagtatct tgagtgggtg accacacttg tcagtgggag   1740
gctctgggct gccctgtcgg ctccttgagg gcgggatgaa ctgctttgtg acttggaaag   1800
gtacgctgct ggccagcatt ggagaagaag ctgctgagca tggctttctg tagtctttag   1860
caagacacaa gtggattttg actttgtatc atgtcatgat ttctaacaat aaatgatgtt   1920
tttatgtgca aaaaaaaaa aaagaggggc ccccttata aaaaacaca ttg             1973
```

```
       <400> 6469
cccggtgcga cgatttcgtg gcgaaggtgc gggaacgtcc actcccgcgc gcccctctcg     60
gggaccaggg cggcctccca ggaggagctt ggtttctggt cctcataccg tgtggttgag    120
tgaaatcaaa acttccacga tagcaatgct gattggacaa agaatgtgtt gtggacacaa    180
aaccaaactc tggaggacag aggattcatt ccaaggtaga gatggattcc tggaaatacc    240
tcctcaaggc cagggtagag ccctcaatca cccactgccc ccagcttctc cttctcccat    300
ctcctgcacc aagcaggtct ccaggtgttc cagctgctga tgacgtaaag tgtggagttg    360
gtccaggaag gtcatgttcc atgcagcacg aggagcgctt tgtgtgagaa gttgaagacc    420
tgctgtaaca catcatagag gaaagacata gcctggggcc ttctgcaact ggctgacttc    480
caccttctcc tggggggaatc tgaagtcact tctgtccttt agacacaaga agggagagat    540
tctcctcatt tggcccaaaa gcaccaaggt gttcctgcct agcaggccaa tggttctgag    600
gcaggttata tcctagagat ccagaagagc cacagctgca cacctctagg ctgccagta    660
gagggaagag gaggcccatt gagaaatcag gatgcttttg gcctggatga gctgaggtct    720
tcataaaacc ttggatccta ggttctatga agacattcta tctatgcatg gctttaatgg    780
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```
agcacaaata gttttcattt ttctgagcat ttctctaaat ttttaattcc atttattgtt      840
ttcatttaca tggcttctat atcagcatcc acaacctttt ggccaccagt ttggtggaag      900
ataattttc cacgaaaaat ggggtcaggg agggaatgct ttcagaggca ttagattctc      960
attaggagac cacaacctag atccttcgca tctgcacttc acaatagggt tcctgctctt     1020
ttgagaatcc aatgccactg ctgatctgac aggaggcaga gctcaggcgt taatgcttgt     1080
tggttggcct gcttgcctcc tgctgtgcgg ccctgttcct accaggccag gaccagtacc     1140
ccggtccatg gatgggggtg tgaaaaacct tgttctatat gacataaaag gaggtcgtcg     1200
ctccacactc ttgattttg caatggattg ttccaatatt cccagtaaac ttaagatata     1260
tcaatccaaa tgaatattga tcaatcagat gagaaacgtc tgtgtgcata ctgttagaag     1320
tatatacttt tagcccagat cctagcctcc agttttaccc tccattttgc ataggaaatc     1380
aggatccctg ggccctatgg gtttctgtat tcagttagca aattacctat ctctggaaat     1440
tcaacttttt aggact                                                     1456




        <210> 6470
        <211> 3380
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (33)...(3065)
        <223> similar to gi3811347 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



        <400> 6470
ctgatacccc agcttggcac ggggacgcag ccatggcgga ggcggctttg gaagccgtgc       60
ggagcgagtt acgagaattc ccggccgctg caagggagct ctgcgtgcct cttgctgtgc      120
cctacctgga caaaccccca actccgctcc acttctaccg ggactgggtc tgccccaaca      180
ggccgtgcat tatccgcaac gctctgcagc actggccggc cctccagaag tggtccctcc      240
cctatttcag agccacagtg ggctccacag aggtgagtgt ggccgtgacc ccagatggtt      300
acgcggatgc cgtgagaggg gatcgcttca tgatgccagc tgagcgccgc ctgcccctga      360
gcttcgtgct ggatgtgctg gagggccggg cccagcaccc tggagtcctc tatgtgcaga      420
agcagtgctc caacctgccc agcgagctgc cccagctgct gcctgatctg gaatcccatg      480
tgccctgggc ctccgaagcc ctgggaaaga tgcccgatgc tgtgaacttc tggctggggg      540
aggcggctgc agtgacttct ttgcacaagg accactatga gaacctctac tgcgtggtct      600
caggagagaa gcatttcctg ttccatccgc ccagcgaccg gcccttcatc ccctatgagc      660
tgtacacgcc ggcaacctac cagctaactg aagagggcac ctttaaggtg gtggatgaag      720
aggccatgga gaaggcagag gtgtccagga cctgcctgct cacggttcgt gtcctgcagg      780
cccatcgcct accctctaag gacctagtga ccccctctga ctgctacgtg actctctggc      840
tgcccacggc ctgcagccac aggctccaga cacgcacggt caagaacagc agtagccctg      900
tctggaacca gagctttcac ttcaggatcc acaggcagct caagaatgtc atggaactga      960
aagtctttga ccaggacctg gtgaccggag atgaccctgt gttgtcagta ctgtttgatg     1020
cggggactct gcgggctggg gagttccggc gcgagagctt ctcactgagc cctcagggtg     1080
aggggcgcct ggtaagttga atttcgcctg cagagtctgg ctgaccgtgg cgagtggctc     1140
gtcagcaatg gcgttctggt ggcccgggag ctctcctgct tgcacgttca actggaggag     1200
acaggagacc agaagtcctc agagcacaga gttcagcttg tggttcctgg gtcctgtgag     1260
ggtccgcagg aggcctctgt gggcactggc accttccgct tccactgccc agcctgctgg     1320
gagcaggagc tgagtattcg cctgcaggat gcccccgagg agcaactaaa ggcgccactg     1380
agtgccctgc cctctggtca agtggtgagg cttgtcttcc ccacgtccca ggagcccctg     1440
atgagagtgg agctgaaaaa agaagcagga ctgagggagc tggccgtgcg actgggcttc     1500
```

5104

```
gggccctgtg cagaggagca ggccttcctg agcaggagga agcaggtggt ggccgcggcc    1560
ttgaggcagg ccctgcagct ggatggagac ctgcaggagg atgagatccc agtggtagct    1620
attatggcca ctggtggtgg gatccgggca atgacttccc tgtatgggca gctggctggc    1680
ctgaaggagc tgggcctctt ggattgcgtc tcctacatca ccgggggcctc gggctccacc    1740
tgggccttgg ccaacctttta tgaggaccca gagtggtctc agaaggacct ggcagggccc    1800
actgagttgc tgaagaccca ggtgaccaag aacaagctgg gtgtgctggc ccccagccag    1860
ctgcagcggt accggcagga gctggccgag cgtgcccgct tgggctaccc aagctgcttc    1920
accaacctgt gggccctcat caacgaggcg ctgctgcatg atgagcccca tgatcacaag    1980
ctctcagatc aacggggagg ccctgagtca tggccagaac cctctgccca tctactgtgc    2040
cctcaacacc aaagggcaga gcttgaccac ttttgaattt ggggagtggt gcgagttctc    2100
tccctacgag gtcggcttcc ccaagtacgg ggccttcaat cccctctgag ctctttggct    2160
ccgagttctt tatggggcag ctgatgaaga ggcttcctga gtcccgcatc tgcttctttta   2220
gaaggtatct ggagcaacct gtatgcagcc aacctccagg gacagcttat actgggcctc    2280
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cagcagtttg cagtggggta aggaggccaa gcccatttgt gtaatcaccc aaaaccccccc   3300
ggcctgtgcc tgttttcccc tctgcgctac cttgagtagt tggagcactt gatacatcac    3360
agactcatac aaaaaaaaaa                                                3380
```

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        <400> 6471
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cccagcttcc tgcagccagc cctgaaggat ggctgccata ttgggagaca ccatcatggt    120
ggctaaaggc cttgtcaagc tgacccaggc ggccgtggaa acccacctgc agcacttggg    180
catcggaggg gagctgatca tggcggccag ggccctgcag tccacggctg tggagcagat    240
tggcatgttc ttggggaagg tgcagggtca ggataaacat gaagaatatt ttgctgagaa    300
```

```
cttcggcggc ccagaagggg agttccactt ctcagtcccg catgcagccg gagcctccac    360
agacttctct tcagcctccg ctcccgacca gtcagcgccc ccatccctgg gtcatgccca    420
cagcgagggc ccagctcctg cctacgtggc cagtggaccc tttagagaag ccgggttccc    480
cggccaggcc tcctcccctc tgggcagggc caacgggagg ctctttgcaa accccagaga    540
ctcattctct gccatgggct ttcagcgaag gttcttccac caggaccaat cccctgttgg    600
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tggccggctg gccaacttcg gaggtctggc cgtgggcctg ggcttcgggg cactggcaga    780
ggtcgccaag aagagcctgc gctccgagga cccctcaggg aagaaggccg tgctgggttc    840
cagtcctttc ctgtccgagg ccaatgcaga gcggatcgtg cgcacgctct gcaaggtgcg    900
tggtgcggca ctcaagctgg gccagatgct gagcatccag gatgatgcct ttatcaaccc    960
ccacctggct aagatcttcg agcgggtgcg gcagagcgcg gacttcatgc cactgaagca   1020
gatgatgaaa actctcaaca acgacctggg ccccaactgg cgggacaagt tggaatactt   1080
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cctctgatga gccttttgat tttggcactc agagcaccac cgagaagatc cacaacctga   1860
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acagatacga ttgtgggatt tttatcatct gtgtagtagg tgtgtgtatg tgtttctaga   2460
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gctgagctaa cagtgccaac aagtgctcct taagcctgcg aggcccaggc ctgtggggct   2580
ggttctcacc tttgacagct gaatgttcct aaagaactgc tgccccacag tgagggtggg   2640
agcagcggaa cagggaatgc cagacacagg ctcgctgctg ctggaaggcg gggtgggact   2700
tccttcctct gtccggagag gcacaggtgt caccagttcc agccaaaggc tcctcacagg   2760
cgctgtgaat ttttgtacaa gtcttgtaat tatcgaatca acaacttgct tcaatttaat   2820
aaaaatgctc atgggaagtg caaaaaaaaa a                                    2851
```


<210> 6472
<211> 1897
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1282)...(265)
<223> similar to gi3877424 in the genepept database release 114,

5106

Run with FASTXY 3.3t00, default parameters

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aaaggcagat gggcggtcaa ccggtggatg ggcacaggga gaaccggaga aacagatgag   180
tggaggaacg gacacacggg caccgggcgg ctcccccatc tggaatgcag ggtgtaaggg   240
gtccgggcca ggaggctcag cggtcggcac tggagcgcag gtcggtagtg aggggatcgt   300
gctggatcgt ctggtgcagc atcagggcca gcaatcccgc gcggtttgtc atggctgtgc   360
gcacattgcg ctcctgctca aacagctcgt ccagcttgta ccacacacgc acgcgctcca   420
agtccacttc cgcacgccgc agcttctccc agcagtaatg gcgattgcac tggcgcttgg   480
gcaggcggca gaagtcaccc gtgagctcaa agacatcacg tacaagggg cacccgcata   540
cctcgtcagc tggcactttg gggtcccgtg agtgctcggg gcacagcacc tggagccgct   600
tacagtatgt tttgctctga ggattataca catcacagaa gagtcgtgtg gcccccttcaa   660
tgcgtgtggg gtacatggac ccaaaggacg tctggctctc atacttggcg tagcagcgct   720
ccatgtggcg caaggcaaca cgtgggttga tggggtgccc acaggaaaca cagaagatct   780
gcaggtctgt gtcatcactg tcaccctcgt tgctctcctc atcctcgcgc acagcctgct   840
gcttggcacg tagaatgatg gcctcaagct catggaatcg gcgttccatt tcctgaaggc   900
gggtgcgggc actctgctgc tctcggcgaa tgcgttcgag cagcttcttg ccgtgctctt   960
cagcaatgca agggctctgc tgccactgct ggatgcgctg ggggaggatc tcgtagatgc 1020
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ggcgcacaca gccggcccag gcactggggc agtgacgcag ggtccttggc atcagccctc 1140
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caggccattg tcatcaaagg ccctgcaca gaagtccttg ataccaggtc aggatccaga 1380
gggtgggtcc ctcatctgag agtggctcag gtgtgtctgt agcctcagga ggctccttga 1440
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caccccaccc tggggggctg gactcaccga ggaaggaag tacttgtacg attcctgtgc 1680
cggcaggagg aaggcccagg tcagccccag gtggatggag ggcggccttg ccctagccct 1740
acccacctgg cctggcctta cctccccaga cacacctccc cgctacccct cattgccagg 1800
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<210> 6473
<211> 1584
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1577)...(482)
<223> similar to gi307221 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6473

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ttctcaggtc tttatttgct ctctcaaatt ccaggaattg acttatttaa ttaatccatc   120
aacctctcat agcaaatatt tgagaaaaca aatttatatt cagattctta ttttcagtag   180
ggaagtaaga agttgcagct cagtgcacgt aaagttgaga cagagatgga gacatccagc   240
cccacctctc tggaacaaga aagatgactg gggaggaaac acaggtcagc atgggaacag   300
gggtcacagt ggacacaagg gtgggctgtc tctccacctc ctcacattat gctaacaggg   360
acgcagacac attcaggtgc cttttgcagaa agagatgcca gaggctcttg aagtcacaaa   420
ggggaggcgt gaagaaatcc tgcatctcag tccctcacaa gacagctgtc tcaggctttt   480
caagctgtga gagacacatc agagccctgg gcactgtcgc tgcacgcagc ctgagagtag   540
ctccctcctt ttccacctga actcttcctc ctacacatca cagcagcgac cacagctccg   600
atgaccacaa ctgctaggac agccaggcca gcaacaatgc ccacgatggg gacggtggac   660
tgggaagacg gctcccatct cagggtgagg ggcttcggca gcccctcatg ctgtacatgg   720
catgtgtatc tctgctcttc tccagaaggc accaccacag ctgccccact ttctggaagg   780
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tccccgctgc caggtcagtg tgatctcccg cagggtagaa gcccagggcc cagcacctca   900
gggtggcctc atggtcagag atggggtggt gggtcacgtg tgtctttggg gggtccgcgc   960
gctccagcgt gtccttcccg ttctccaggt atctgcggag ccactccacg cacgtgccct  1020
ccaggtaggc tctgtcctgc tccgccacac gggccgcctc ccacttgcgc tgggtgatct  1080
gagccgcggt gtccgccgcg gtccaggagc gcaggtcctc gttcagggcg atgtaatcct  1140
tgccgtcgta ggcgtactgg ttatgcccgc ggaggaggcg cccgtccggc cccacgtcgc  1200
agcccgtaca tgctctggag ggtgtgagac ccggcctcgc tctggttgta gtagccgcgc  1260
aggttccgca ggctctctcg gtcagtctgt gcctgggcct tgtagatctg tgtgttccgg  1320
tcccaatact ccggcccctc ctgctctatc cacggcgccc gcggctcctc tctcggactc  1380
gcggcgtcgc tgtcgaacct cacgaactgg gtgtcgtcca cgtagcccac tgagatgaag  1440
cggggctccc cgcggccggg ccgggacacg gaggtgtaga aatacctcat ggagtgggag  1500
ccggcccagg tctcggtcag ggccactgcc ccccagagca gcaggaggac ggttcggggc  1560
gccatgacca gcatctcggc gtct                                         1584
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<210> 6474
<211> 3611
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (79)...(3400)
<223> similar to gi31768 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6474

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gagccctgct gtctccggcc cctccccagt caggggcccc ccagtgtggg dacagaagga   180
ctgtctggcc cgccttctg ccaccaagct aacctcatgt ccggcccca cagttatggg   240
ccagccagag agaccaacag ctgcaccgag ggcccactct tttcttctcc ccggagtgca   300
gtcaagttga ccaagaagcg ggcactgtcc atctcacctc tgtcggatgc cagcctggac   360
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ttcccagccc agatgaatca ccaaaaaggg ccctcgcctt cctttggggt ccagccttgt   540
```
```

```
ggtccccatg actctgcccg gggtgggatg atcccacatc ctcagtcccg gggacccttc      600
ccaacttgcc agctgaagtc tgagctggac atgctggttg gcaagtgccg ggaggaaccc      660
ttggaaggtg atatgtccag ccccaactcc acaggcatac aggatcccct gttggggatg      720
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cacactggcg agaagccaca caagtgcacg tttgaagggt gccggaagtc atactcacgc     1020
ctcgaaaacc tgaagacgca cctgcggtca cacacgggtg agaagccata catgtgtgag     1080
cacgagggct gcagtaaagc cttcagcaat gccagtgacc gagccaagca ccagaatcgg     1140
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gatcctagct cgctgcgaaa acatgtcaag acagtgcatg gtcctgacgc ccatgtgacc     1260
aaacggcacc gtggggatgg cccccctgcct cgggcaccat ccatttctac agtggagccc     1320
aagagggagc gggaaggagg tcccatcagg gaggaaagca gactgactgt gccagagggt     1380
gccatgaagc cacagccaag ccctggggcc cagtcatcct gcagcagtga ccactccccg     1440
gcagggagtg cagccaatac agacagtggt gtggaaatga ctggcaatgc agggggcagc     1500
actgaagacc tctccagctt ggacgaggga ccttgcattg ctggcactgg tctgtccact     1560
cttcgccgcc ttgagaacct caggctggac cagctacatc aactccggcc aatagggacc     1620
cggggtctca aactgcccag cttgtcccac accggtacca ctgtgtcccg ccgcgtgggc     1680
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aatgctgcca tggatgctag agggctacag gaagagccag aagttgggac ctccatggtg     2220
ggcagtggtc tgaaccccta tatggacttc ccacctactg atactctggg atatggggga     2280
cctgaagggg cagcagctga gccttatgga gcgaggggtc caggctctct gcctcttggg     2340
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attgcccact tgctatgggc ctctcaaagt gggaggcaca aaccccagct gtggtcatcc     3120
tgaggtgggc aggctaggag ggggtcctgc cttgtaccct cctcccgaag acaggtatg     3180
taacccccctg gactctcttg atcttgacaa cactcagctg gactttgtgg ctattctgga     3240
tgagccccag gggctgagtc ctcctccttc ccatgatcag cggggcagct ctggacatac     3300
cccacctccc tctgggcccc ccaacatggc tgtgggcaac atgagtgtct tactgagatc     3360
cctacctggg gaaacacaat tcctcaactc tagtgcctaa agagtaggga atctcatcca     3420
tcacagatcg catttcctaa ggggtttcta tccttccaga aaaattgggg gagctgcagt     3480
cccctgcaca agatgcccca gggatgggag gtatgggctg ggggctatgt atagtctgta     3540
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gaaaaaaaaa a                                                          3611
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<210> 6475
<211> 2583
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (300)...(2333)
<223> similar to gi2584767 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6475
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ggagtctgag ctctgctgca tctgtcacag cagaacaaaa ttaaaaacac aacagtggaa   180
gagaaacgct gcagactatg ggacgctgta ggactttcta aaacatttgc tggggatttc   240
tgtgaagcat gatcttttaa aacgaattct tttggaagcc ggtttgggta actgggaaaa   300
tgacacatat gctaaatgca gcagctgatc gagtgaaatg gaccagatcg agtgctgcta   360
agagggctgc ctgcctggtg gctgcggcat atgctctgaa aaccctctat cccatcattg   420
gcaagcgttt aaagcaatct ggccacggga agaaaaaagc agcagcttac cctgctgcag   480
agaacacaga aatactgcat tgcaccgaga ccatttgtga aaaaccttcg cctggagtga   540
atgcagattt cttcaaacag ctactagaac ttcggaaaat tttgtttcca aaacttgtga   600
ccactgaaac agggtggctc tgcctgcact cagtggctct aatctcaaga acctttcttt   660
ctatctatgt ggctggtctg gatggaaaaa tcgtgaaaag cattgtggaa aagaagcctc   720
ggactttcat catcaaatta atcaagtggc ttatgattgc catccctgct accttcgtca   780
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tgggaggctg gcaaaccctg accaatctct tacggaggat attatgatgt tctcccaatc   960
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tacactcatt caaactgcta catccagagg agcaagccca attgggccca ccctactagc   1080
aggacttgtg gtgtatgcca ctgctaaagt gttaaaagcc tgttctccca aatttggcaa   1140
actggtggca gaggaagcac atagaaaagg ctatttgcgg tatgtgcact cgagaattat   1200
agccaatgta gaagaaattg cctttttacag aggacataag gtagaaatga aacaacttca   1260
gaaaagttac aaagctttag cagatcagat gaacctcatt ttatccaaac gtttgtggta   1320
catcatgata gaacagttcc tgatgaagta tgtttggagc agcagtggac taattatggt   1380
ggctatacct attatcactg caactggctt tgcagatggt gaggatggcc aaaagcaagt   1440
tatggttagt gaacggacag aagcctttac cactgctcga aatttactgg cctctggagc   1500
tgatgctatt gaaaggatta tgtcttcata caaagaggtc actgaattag caggctacac   1560
tgctcgagtg tacaatatgt tttgggtctt tgatgaagta aaaagaggca tttataagag   1620
aactgctgtc attcaagaat ctgaaagcca tagcaagaat ggagctaagg tagaattacc   1680
tctcagtgac acattggcaa ttaaaggaaa agttattgat gtggatcacg gaattatttg   1740
tgaaaatgtt cccataatta caccagcagg agaagtggtg gcttccaggc taaacttcaa   1800
agtagaagaa ggaatgcatc ttttgataac tggtcccaat ggttgtggga aaagttctct   1860
cttcagaatt ctaagtgggc tctggcctgt gtatgaagga gtcctctata aaccacctcc   1920
tcaacatatg tttttatattc cacaaaggcc atatatgtct cttggaagtc ttcgggatca   1980
agtcatttac cctgattcag tggatgatat gcatgataaa ggttatacag accaagatct   2040
ggaacgtatc ctacacaatg tccatctcta tcacatagtt caaagagaag gaggatggga   2100
tgctgttatg gactggaaag atgtcctgtc aggaggggaa aagcaaagaa tgggcatggc   2160
tcgtatgttt tatcataaac caaaatatgc cttgctggat gaatgtacca gtgctgtcag   2220
cattgatgtc gaaggaaaga tatttcaggc tgcaaaaggg ctggaattt ccttactgtc   2280
tataacacac agaccttctc tttgggtcac ccattgtttt gtcacccaga ctggagtgga   2340
atggcacgat catggttcac tgcagcctca acctcctgga ctcaagcgat cctcttgcct   2400
cagcctccca ggtggctgag aatacaggtg cacaccacca tgccctgcta gttttttttat   2460
ttttgtcttt ttgtagagat gtatgttgcc caggcttgtc ttgaactctg aacaattctc   2520

                                        5110

```
ctgcctcagc ccctcaaagc gctgggattg cagatgtgag ccaccttgcc cagccagatc    2580
ttt                                                                  2583




        <210> 6476
        <211> 2332
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1000)...(1865)
        <223> similar to gi3820985 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6476
agatacacaa caaattttaa aagagactct gtgctgcaag aggatggatt gagaataact     60
ttacttgttt ttttgggagg aggttaatgg gtgggagggg tgagagggga gaatctgatt    120
tacatacgga cttgagactc ccaaggcagt accccgggtc gtcctctgca aggttgcccc    180
ggtgggtgct tgactcccag ctggcgtccc gggagcccgg ggtggagtcc atggagggag    240
agcgaacggg gaatgttgga ggggggcctgg agtgggggga ggggggcgggt gaggcaaggc    300
ccggcccgca acaagtcctg cctctgggcc ccgggagcgt cctccctgtg tccgggacgg    360
gcgagggctt aatgctatgg acagcggaga ggcctggcgg ggcacagcgg ggactgaggg    420
ctcagtgggg cgggtggcgc gattcggcca aggccccgc ggcccaacac tttcgccgct    480
gaactggtaa gtgaacttct tcttcaactt cttgaactcg cccgtcttgc cagtaggttc    540
gcagcgcgcg cgccatcttc tggtaggtca tcttcttgcg gttgcccttc tggatgcccc    600
agcgtgtcgc cagcgcctcc ttgtgcttgg acgagaactg gaaggtgccc ttgtccttgt    660
ccacccacca gatgctgtcc ttcatgtcgc cgctgcggag caggtccaac aggaactgcc    720
gctttgtccc ccctgccttg aggaatgcag tgaagctagc acgggccttg tcctctgcac    780
gttaccttac ctcagagatt acatgcctta cctcgctgaa tcatcacagc cctaggagta    840
cgtggcatgc ctggatgtcc ctgccctggc tgtggcatgg cgggcccaag gctcctcttc    900
ctcactgccc ttgccctgga gctcttggga agggctgggg gttcccagcc ggccctccgg    960
agccggggga ctgcgacggc ctgtcgcctg dacaacaagg aaagcgagtc ctggggggct   1020
ctgctgagcg gagagcggct ggacacctgg atctgctccc tcctgggttc cctcatggtg   1080
gggctcagtg gggtcttccc gttgcttgtc attcccctag agatgggggac catgctgcgc   1140
tcagaagctg gggcctggcg cctgaagcag ctgctcagct tcgccctggg gggactcttg   1200
ggcaatgtgt ttctgcatct gctgcccgaa gcctgggcct acacgtgcag cgccagccct   1260
ggtggtgagg ggcagagcct gcagcagcag caacagctgg ggctgtgggt cattgctggc   1320
atcctgacct tcctggcgtt ggagaagatg ttcctggaca gcaaggagga ggggaccagc   1380
caggccccca acaaagaccc cactgctgct gccgccgcgc tcaatggagg ccactgtctg   1440
gcccagccgg ctgcagagcc cggcctcggt gccgtggtcc ggagcatcaa agtcagcggc   1500
tacctcaacc tgctggccaa caccatcgat aacttcaccc acgggctggc tgtggctgcc   1560
agcttccttg tgagcaagaa gatcgggctc ctgacaacca tggccatcct cctgcatgag   1620
atcccccatg aggtgggcga ctttgccatc ctgctccggg ccggctttga ccgatggagc   1680
gcagccaagc tgcaactctc aacagcgctg ggggcctac tgggcgctgg cttcgccatc   1740
tgtacccagt cccccaaggg agtagaggag acggcagcct gggtcctgcc cttcacctct   1800
ggcggctttc tctacatcgc cttggtgaac gtgctccctg acctcttgga agaagaggac   1860
ccgtggtgag tgacctgttg gaggaagagg actgccactc acagggccct taggggctca   1920
ggagggaagg gctcctggcc gctgcctgct ccccctgccc atgcctccac cgtgagccgt   1980
tccctcccca caggcgctcc ctgcagcagc tgcttctgct ctgtgcgggc atcgtggtaa   2040
tggtgctgtt ctcgctcttc gtggattaac tttccctgat gccgacgccc ctgcccccctg   2100




                                5111
```

```
cagcaataag atgctcggat tcactctgtg accgcatatg tgagaggcaa agagggcgag      2160
tggctgcgaa agagaatgag cctcccgcca gacaggaggg aggtgcgtgt ggatgtatgt      2220
ggtgtgcaca tgtggccaga ggtgtgtgcg cgagaccgac actgtgatcc ctgtgctggg      2280
tccgggggccc agtgtagcgc ctgtccccag ccatgctgtg gttacctctc ct            2332
```

<210> 6477
<211> 4593
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4594)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (119)...(1325)
<223> similar to gi2894086 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6477
```
tttcgtggcc agggccgaga agggcttcag gacgcgggag gcgcacttgc ttcaagtcgc       60
gggcgtggga acggggttgc aaaacggggc ctctttatcc gggcttgctt ccggcgtcat      120
ggctcaaagg gccttcccga atccttatgc tgattataac aaatccctgg ccgaaggcta      180
ctttgatgct gccgggaggc tgactcctga gttctcacaa cgcttgacca ataagattcg      240
ggagcttctt cagcaaatgg agagaggcct gaaatcagca gaccctcggg atggcaccgg      300
ttacactggc tgggcaggta ttgctgtgct ttacttacat ctttatgatg tatttgggga      360
ccctgcctac ctacagttag cacatggcta tgtaaagcaa agtctgaact gcttaaccaa      420
gcgctccatc accttccttt gtggggatgc aggccccctg gcagtggccg ctgtgctata      480
tcacaagatg aacaatgaga agcaggcaga agattgcatc acacggctaa ttcacctaaa      540
taagattgat cctcatgctc caaatgaaat gctctatggg cgaataggct acatctatgc      600
tcttcttttt gtcaataaga actttggagt ggaaaagatt cctcaaagcc atattcagca      660
gatttgtgaa acaatttaa cctctggaga aaacctagct aggaagagaa acttcacggc      720
aaagtctcca ctgatgtatg aatggtacca ggaatattat gtaggggctg ctcatggcct      780
ggctggaatt tattactacc tgatgcagcc cagccttcaa gtgagccaag ggaagttaca      840
tagtttggtc aagcccagtg tagactacgt ctgccagctg aaattcccct ctggcaatta      900
ccctccatgt ataggtgata atcgagatct gcttgtccat tggtgccatg cgcccctgg      960
ggtaatctac atgctcatcc aggcctataa ggtattcaga agagggaaaa gtatctctgt     1020
ggatgcctat cagtgtgctg atgtgatctg gcaatatggg ttgctgaaga agggatatgg     1080
gctgtgccan aggttctgca gggaatgcct atgccttcct gacactctac aacctcacac     1140
aggacatgaa gtacctgtat agggcctgta gtttgctga atggtgctta gagtatggag     1200
aacatggatg cagaacacca gacacccctt tctctctctt tgaaggaatg gctggaacaa     1260
tatatttcct gggctgacct gctattcccc acaaaagcca gggttccctg catttgaact     1320
ctgaaaggat aacatgccca cctgcaaact cactgccatg accctttctg tatattcaaa     1380
ccccaagcct aagtgccttc cgttgctttc ccaaggaaac aaagagtcaa actgtggact     1440
tgattttgtt agcttttttc agaatttatc tttcattcag ttcccttcca ttatcattta     1500
cttttactta gaagtatcca aggaagtctt ttaactttaa tttccatttc ttcctaaagg     1560
gagagtgagt gatatgtaca gtgttttgag attgtataca tatattccag aacttggagg     1620
aaatcttatt taagtttatg aatataacca tctgttactg ttctaaaaat gtttaaaaga     1680
```

5112

```
aactcaatac agataaagat aaatatgtga ctattattgg gtattacact tcacttctct      1740
ttaatatttt tcctccaact ggagggcaga caattttttct gacttgcttt tctctaggtg      1800
gttcattttg aaaggggaca gaaatataac taaatgcttc caggagaaaa attccaagag      1860
ttacaatctg gacttggtac ctaaatatca ttttttaaat tcttgatgcc tatttggact      1920
agaggtaaac atactttcag attggcctgt ttttgtcggt aaggcataca gccttcagaa      1980
gccaacattt ttaatcaaaa acttataaaa catgatgatc attgtgaaaa ttctgagttg      2040
aaggatagtt taagataagc taacaataac agtctgtgtt ttctataaaa taatctgagt      2100
tttttggaac tctttatttta aaatatgtgtg ttttttcagta ttcaaataag atcaggaagc      2160
caattttcta tgtatgaata tgctttaacc taggatttca gtccactctg actgactttc      2220
taaactttaa cttgggtttt tacagtgact atgcattagt gctgactctt tggtataagc      2280
cccataaaaa atttccctcc ctatcaattt atctgaactt tggtcttttc acttaaattg      2340
tacagtattc ctacttcctg tttaaaacgg ggagatgagg aaagggaata ctatcctaac      2400
caataacttg aacaaaaaca ctaaaactaa ggcatttaat taggaaatgc ttttttattga      2460
ggaggtatta tccagagttc atgcttagaa caaatgcatc tttgcgtatc ctagacttaa      2520
caattcatca gtttctgaga ccacagaatc aggttttccg tagtagataa agactctctg      2580
gtgcttcaaa ttctgttcaa gtgttttgac tcatcagctt ctactctttc tattactgcc      2640
tttgcctggc ttgttttgtc tctttgcaac tgattttgca aaaaaaaatt gtagctttaa      2700
aataacaggg tctaagtatt ttaaatgtgc ctatttcaca gctctcttgg tcacaaaaac      2760
atgctatttt tattggaact tcaaaccaaa tccccactga ggtgtgtact gggttcctgc      2820
agggtaggca ggtctcctat tatctcctgt ttagcaccaa aagagctaat attattggaa      2880
actgaccttt taaaggccac tggcagtagg atttaaaaag cagcccactg ctcagtttcc      2940
aggatcagct tcctccttct gtcacttgtg taagttggca ctaccttgtg cctctcagat      3000
tgctgaagtg ctgctggtaa gcatgtgcat gctctgcctt tcttgtgaaa gttttcaatc      3060
agcgatatca gcacttacag taagaagtaa aagtagtgca cagcaaagct aatttgcctt      3120
tgcctggggt gttcagcttg aaagaataaa gctcatttgg tttagttaaa tgtcttactc      3180
tactgtgcct atgctttttag ctgcgttact aagcaaggga aaaataacag tttctctgag      3240
ccagagaaga cttgatcaca gttctccaag catcgtgata gcaatgctta accccaggaa      3300
gatttcaagg cagggagaag aacatttcaa ataagattct tgttaaccca tttatgccta      3360
gtgttccatt attggaatgc taagcttgtg ggagtcattt acatcctact gctcaaagtc      3420
attgccaagg tctgattttt cacacaaaaa attgcaaccc ccagcataaa tgggttagct      3480
actgtcatca gttagcaaat tcatccacac aaacacaatt agagtttggt ttttttttaa      3540
gcttttcaaa acttactaaa ctggcacaat tttatatgta tgctatttgt tgtatttatg      3600
cttaagagca aaaaagtttt gatgggattt taaattcagg caaagcctac aacgctgaga      3660
caatccccta acaacatggt agtaactaaa gaaactttta tactaggctt cttagttttta      3720
aaaggaagtg gcatcattgt ttcagttcta gtttgtattt ttctctcaga tattttttctt      3780
ctttaaaaat ctttcccaga agttggttcc tagaaaactc aataccatca tctcttatct      3840
ctatacaggg actaggtaat aaaaccttca aaggttgtca aaggtcatca agcagtgttc      3900
atttatcctg tcacatgttt ctgtttctat agtaatttag aaattgcaaa tagttaactt      3960
ttcatcatgt aaaaagttaa cattatccta tttccataga taccatggac ggcggtgtgg      4020
cctgagttgt cagtctttaa tcctgagtca tgtggctctc ttttcatctt tgatgtcagt      4080
tccaattatt tggcatcaaa aaccttcatg gtaggtagag ttttaggtaa aagtggatct      4140
agggttactt tctttattaa catttcctaa ataactgaat tgagagacat actctgctac      4200
tatgtcctca ggttaatttt tgtctgatct tacgatgccc tgccttttac tagctacttt      4260
agaaatagaa aatgtgaaga gtgactattt acatgtatac tcctttggct gctagaactc      4320
atctgtagtc ctttattatt tacactgaat tccaatttca tttctgcttc cgctaagtaa      4380
gagcacctca ttcctgtgtt ttctctacta ttgagctgta gacgaactgt ttctctaatt      4440
ataaagcaaa ctgtttggga tattcaggga aactacccca atgttatgtt gtcatttaat      4500
gggaaaggct gggatcatat gtatttctat gttctgtaaa gtatttgact tactagttct      4560
caataaaatt ttattaggac tataaaaaaa aaa                                     4593


         <210> 6478
         <211> 764
         <212> DNA




                                   5113
```

<213> Homo sapiens

<220>
<221> misc_feature
<222> (733)...(376)
<223> similar to gi495861 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6478
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tttcgtaagt actcctggct tcgagacatg gggctgctgg gcccagggggg cccatctccc      60
agcatcttct gcgagctgct catgtgccgt gcccgaccac ccaggctgga gtcctgccgc     120
gtggtggccc tcggggtggg\tggcaggtgg ctggagggct tctcagtggt gggccccacc     180
tcagccgggc cagtcatggc agcctgcagc tcgtcactga gctcgctgtc ctggaaggtg     240
gtcattttag gggactggca gtcggccggt gtgggctcag gcgggggcgg cgactcgatg     300
gccatcactt caagagactg gggcgccttc cggcgcaggg ggcccccctc atacttggcg     360
tattcagcct tctgcagctc tgccagcttc ctcacagcga gcatcagctt cttctggtgc     420
cccagcttgg tgatgccgat ctcctgcagg tcctcccagg tgatgtcggt gatgaaatca     480
atgttctcgt agccattgtc caccaacacc ttgtagtact gggccaggcc gatcatggac     540
agccacacgg ccaggttagc cttgccctcc gatgctggct ccagcttctt gggcggctgc     600
tccccataga cctgcccggc gtgggccact ggaggctggg accgggccac acctgcagag     660
ccttccggag gcttggcggg gctgtccccc gggccggact cagagacgga cttctgggaa     720
agcaccgttg ccaggagctt gacgccttca gagcccgcgt gtag                     764
```

<210> 6479
<211> 5999
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)...(1616)
<223> similar to gi4240132 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6479
```
tgtccttcga ggccagcgtg gccctgctgg aggcctcgct gaggaacgac gccgaggaag      60
gaatgaatgg agaatccatg atgtaaccac agcccccttc cctgggcttg ttcagaggcg     120
gtctcgcctg ctcattgtga gccaagtacg ctacttcctg aagaataagg tcagccctga     180
tttgtgcaat gaggacggac tcacagccct acaccagtgc tgcatcgaca actttgagga     240
aattgtgaag ctgctcctct cccatggtgc caatgtgaac gccaaggaca acgagctgtg     300
gacacctctc catgctgcag ccacctgcgg ccacatcaac ctggtgaaga tcctcgttca     360
gtatggggcc gacttgcttg ctgtcaactc ggatgggaac atgccatatg acctctgcga     420
ggatgaaccc accctggatg tcatcgagac ctgcatggca taccagggca tcacccaaga     480
gaaaatcaac gagatgcggg tggctcctga gcagcagatg attgcggaca tccactgcat     540
gatcgcagcg ggccaggacc tggactggat agatgcccag ggtgccacac tgctgcacat     600
agctggagcc aatggatacc tgcgggcagc tgagctcctc ctggatcatg gagtgcgtgt     660
ggatgtgaag gactgggatg gctgggagcc cctgcatgca gctgccttct ggggacagat     720
```

```
gcagatggca gagctattgg tgtcccatgg agctaatcct caatgcaagg acatccatgg    780
atgagatgcc aatagacctg tgcgaggagg aagagttcaa ggtcctgctg ctggagctaa    840
aaacacaagc atgatgtgat catgaagtca cagctgaggc acaagtcatc cttgagccgg    900
aggacctccc accgccaggc aagcccgtgg gaaaggtggt gcggcgaacc cagcctgtcg    960
gaacaggacc caacctgtaa taggaaggag tatgaaggga agaggccatc ctgtggcagc   1020
ggagtgccag ctgaggatca gcggacctcc acctacaacg gggacatcag ggagacccag   1080
gacagaccaa gagaataagg accctaaccc caggctggag aagcaccgtg ctactctccg   1140
aatttcctac caagatccca cgaggtgaac tggacatgcc tgttgagaat ggcctccggg   1200
ctccggtcag tgcctaccag tatgcgctgg ccaacgggga tgtctggaag gtgcatgagg   1260
tgcctgacta cagcatggcc tatggcaacc ctggcgtggc cgacgccacc ccgccctgga   1320
gcagctacaa ggaacagagc cctcagacgc ttctggagct gaagcggcag cgggctgcag   1380
ccaagctgct cagccacccc ttccttagca cacacctggg cagcagcatg gccaggacgg   1440
gcgagagtag cagtgaaggc aaggcccccct tgatcggagg cagaacttca ccgtacagca   1500
gcaatgggac ctcggtatat tacacggtca ccagcggaga tccccactc ttaaagttca   1560
aggcccccat agaggagatg gaggagaagg tgcatggctg ttgccgtatc tcctagtctc   1620
cgtgtgatgg aggagggaga tgcctgggga ggggctcctg gaatccaggc cagcccaaca   1680
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tgcttcctgc tgcatcgtct gccatctgac acaaggcctg tcgtggcctc ctggttcact   1860
ctgctgtctg atcttgggag ggtgggcttg agatcccagc tctattcttg gtataaaggc   1920
ttctccggat cagtacatgc atgtcacatt aacacacaca cacacacaca catatacaca   1980
cacacacaag ctcgatcagt gtgtgtagga atgacatacc tgggctcagg ggaagcaagg   2040
gggcttagaa tttgtggggt attcccaaaa ggatggaagt taagactcag agtctcatta   2100
ccactgccaa tgtggtttta gcaggggagg ggacctgcta agctgagacc catagtcctg   2160
ctcagagtta tcccaaagtc tgagccacca gccacacctg acaggggtga gaagtcctcg   2220
ctgtgttcag agggagccag gaatctacat gggtagatga gatagacaca gacctgctcc   2280
ccgcagcctt gttgagagcc acacttctgc ccatgccagg agccagctgt gtgaccatcc   2340
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tcttggatgg aagtgtcaaa ggcagaaggg tgtgggaggg ggacaaggtc agtatttacc   2460
aaagtgtatc tgattttaaa aattcctta gtctgtaaaa ctcctagagg gagggaggta   2520
actgaattca cttcttttg tggatcgtat caaggtcact gggtttact ggctggtgct   2580
gggaaaatga agctaagtga ggagcttcca ttggaatgct tttccaggga gagaggccag   2640
ttaatttaaa aaaaacagtc gctagttaac agcgacagag cccagcaccc tggggtcttt   2700
gtgaatatcc agactgtttc agcccagccc atctcagcca accctcctta gactgagctg   2760
tcagagcaag caattagggg ccagcctgcc tccacctccc accccttcc acctccatca   2820
gtcatgtgtg cagagtcagt gctcgggatc ccgggcccag cttttgcctt tttggggatg   2880
cttggtgaga cagatttgcc agtcagccct tttgagttcc cgcctcaccc aggggctccc   2940
agcctgcact tgcaggagtg gtgatgcccc aagtctgcga atccagggtg cacgtggtca   3000
atatcccctc ctgcattcag gagagccatg gtagggctgg agttgggtct tgcccagccc   3060
tgcagtttca tagtcccagc cttcctggtg ctggggaggg aggactgtga atggctgttc   3120
tcccctcact gctgagtctc ccaggacccc cttttggagat gcccatggca tgggcactgc   3180
ccacaggctc agccagaacc tcttggtgta cccgataagc tgcaggttat cccttgctct   3240
gtgcgccttt tatttgtcct taaactacct ccttagagct ctgaaggggt ctcctagttc   3300
cagattttaa tttggggaac agatctgggt tctttttaac cctcttcttt ctcagtctat   3360
gagaaacttg ccctgagggg cacctgggct aggggcttgg gactggaaga ccatccccgc   3420
cttgtgccac aactttggtc atgggatctg ctctttgtca ttcttagccc cctactgtgg   3480
cccccatagc cccataaccc agagagggag ctggacttca gggagcctga gtgatgcttt   3540
cccaggagca gggcagctgg ctggaccaga aagtagaggg cccatgggag tgactgcacc   3600
cttgttggct gctggaaggg gagaggttct cagcatcagg ccacctccac cccaatgcca   3660
ggatagatgt attctggagt aggggtggag gcggcccagg aggctgaatg acaggtgcac   3720
agatgcttcc cacgaccttg ccatttgggg tgggctcttc aacatctcag gctggggctg   3780
gaacaggaca ggatgatcta aaacacacgt accattggct gtaaaacagt atgagcccag   3840
actgacgctg aaatccctca tgagccaacc ttagctacaa ggtagggagt tctgagggaa   3900
gccgcgtgct cctcaggaga gagctgttta ggttttccga tctttttgct caggggccaa   3960
acactgaagg cacgtactgc ccaacccact gagcgcctga ggccattccc tccttttccg   4020
catgcctcct gcctcctggg ctattcctct ccacccagaa ggctgggaat cccagctgat   4080
tccctgacag gagccgactt cacacacagg tgactctcag gcattggctc atgttttcag   4140
```

5115

```
ccagggataa accatccctt cttggggctt taagtccctg gggagctttc cctgtaggtc    4200
tcctgggtgt tgagagacaa gttggagacc aacctccaat gaatgagccg cggtcattca    4260
ttaattcact cacgtaattt actgagtagc tgcaacatgc cagcctctac gttaggttct    4320
gcggataaag gaggaataag acagagtcag gagaactgtt ccttgtggtt tccgtccctt    4380
ggggaccaca ggcatcagca gtcccattca agtcacctga ggcaaagtgt ctgcatcttc    4440
gtccagcgac cctttgcttt tcggctccta gaatccttag agtctgaatt cctttagctg    4500
ggaacagctg tcatggtcac ccctggataa catttgccac caagtataga tgctggatct    4560
tgggttccag gcagacatca tccaggtcca tctggaactt tcagtgatag ctgccttcag    4620
ccagcatctt tggggactc tataatagca gcttgagatc agtgtctaga agactgttct    4680
gcaatttgct gccaaatgca tctcaggttt ttaaagtcat tgtttcttgc tcatgggggc    4740
tcatttatta catagtcccc tcaccccact aatggataat gggaggaaaa gttgctgctt    4800
ccttcagcat caaagccttt ccttgggaat ctgcctccct ccatggcagg ggtggattcg    4860
ggagctggga gtaaccaggc aaagtcaacc agatgcctag ctcctgctga gacccaggtc    4920
ctatggcagc tcctcattag attaaaggag accacttcca aagcaggtgc tgcatggctc    4980
accatcatat gccccaaaca actgaaagtt ggcggttatc accagactgt gagtttctgg    5040
caagtagctt ggggaagctg aataaactct aggcccaggg ctactaaaga cttcaggata    5100
gaattctcca tcaaatatac agcataagta aaactgctct gcactgttta atccatttcc    5160
aaggggctta gaaaagctaa caagggtgtg tcccctgtcc tgccccaccg gtttgctggc    5220
tttgtaataa cataagacca ttgtggttgt tggtgtcaga taccttccca tcctgagctc    5280
tctcacctac ctgctctctc tcctagagca ggatactggg gtacttttaa gaagggtgct    5340
ccttttaaga tgcccagaaa agctgtattt aactcttgct atttgtaact tggggatggg    5400
tctcccctgc cccagggcac ataagagcaa aggctccaat ggtcagtgga tgactctgca    5460
aaagtgaccc cctgtgccag aagctatagc cctctcccca acaggtctct cttgttggcc    5520
agagggcctg cttcccatgg gcattgcaag tgccaccgtg cggggcctgg ctcctgcaca    5580
cccaggaaaa gtctgcagac ccccagcccc tccgcaataa ttcaccagac cagaagccac    5640
tgggtgtaca gagaacactt aaaaaaatgt attttatgtg aaaaaaaatt aaaactctgt    5700
atacctgtat ccagcagctt tgtgtaaaaa tggcaatcaa gagagtcgta atatatttaa    5760
aacttttttt aaaaaaaatc ttcgcagatc tttgatatcg tactgaggta acttccacgt    5820
agccccttgc cactgcggca ccggtgggcc ttgggtccaa aatctgtggc tcagccacat    5880
cccaaagggg gcacatgtcc ctggagttgc ttccagcttg ccaagggcct gtgacagaat    5940
tcgctgttaa gagttttaa ttaaaattat taaattcctt ttaataacca aaaaaaaa    5999
```


<210> 6480
<211> 3893
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (186)...(2801)
<223> similar to gi3153821 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6480
```
ttttttttt ttccagtttt taaatgggga ttttaataga catacttcca aagaagacat      60
gcaaatggtc aataagcaca tgaaaagatg ctcaatatca ttagtcatca gggaaatgca     120
aattaaaact ataaaatagg cggtgcaccc tgggataggg agcgatctcc gagcgaggcg     180
gcaagatgga cgcgggattt ttccgcggaa caagtgcaga acaggataat cggttcagca     240
acaaacagaa gaaactactg aagcagctga aatttgcaga atgcctagaa aaaaggtgg     300
acatgagcaa agtaaatttg gaggttataa agccttggat aacaaaaaga gtaacggaaa     360
```

```
tccttgggtt tgaagatgat gttgtgattg agtttatatt caaccagctg gaagtgaaga    420
atccagactc caaaatgatg caaatcaacc tgactggatt tttgaatgga aaaaatgctc    480
gagaatttat gggagaactg tggccctgc tgctaagtgc acaagaaaac atcgcgggaa     540
tcccttctgc tttcctagaa ctgaagaaag aagaaataaa acaaagacag attgaacaag    600
aaaaactggc atctatgaaa aagcaagatg aagacaaaga taaaagagat aaggaagaaa    660
aagaaagcag cagagaaaaa agggagcggt ctcgtagccc aagaagacgc aaatccagat    720
ctccttcccc tagaagacga tcttcccctg tcaggagaga gagaaagcgc agtcattctc    780
gatctccccg tcacagaacc aagagccgga gtccttcccc tgctccagaa aagaaggaaa    840
aaactccaga gctcccagaa ccttcagtga aagtaaaaga accttcagta caagaggcta    900
cttctactag tgacattctg aaagttccca aacctgaacc tataccagag cctaaagaac    960
cttctccgga aaaaaattcc aaaaaagaaa aggagaagga aagacccga ccacgatctc     1020
ggtcacgctc caaatcaaga tcccggacgc ggtcccgctc tccttctcac actcgaccta    1080
gacggcgcca tagatcccga tcaagatcgt attcacctag aaggcggcca agcccaagaa    1140
ggcggccatc tcctcgaaga agaactccgc caagaagaat gcctcctcca ccaaggcata    1200
gaaggagtag atctccagta agacgaaaaa gacgttcgtc agcatccttg tctgggagta    1260
gctcatcatc ctcttcatct cgttcacggg caccaccaaa gaagcctccc aagaggacat    1320
ccagcccccc tcggaaaact cgtaggttat ctccttcagc aagtcctcca aggcgaaggc    1380
acaggccatc acctcctgca actccaccac ccaaaactcg gcattcccct acaccccagc    1440
agtcaaaccg tacaagaaaa agtccgtgtg tcctgtgtcc ccagggagaa cttcaggtaa    1500
agtgacaaaa cataaaggta ctgagaaaag agaatcccct tcaccagcac ccgaagccta    1560
gaaaagtaga gttatctgaa tcggaagaag ataaaggtgg caaaatggct gcagcagatt    1620
ctgtgcagca gagacgccaa tacagacgac aaaaccagca gtcttcatct gactctggct    1680
cctcctcctc ctcagaagat gaacgaccca agagatccca tgtgaagaat ggtgaggttg    1740
gcaggcggcg gagacattcc ccttcccgga gtgcttctcc atcaccacga aagcgccaaa    1800
aagagacttc ccctcgtggt agacggagga gaagtccatc cccaccaccc accagaaggc    1860
gacggtctcc ttctcccgcc cctcctcctc gacggcgcag gactcccaca ccaccaccac    1920
gacgaaggac tccttctcct cccccacgtc ggcgctcacc ttctcctaga agatactctc    1980
ctccaataca gaggagatac tctccttctc cacctccaaa gagaagaacg gcttcacctc    2040
ctcccctcc taaacgaaga gcatcaccat ctccaccacc aaagcgcggg gtctcccatt    2100
ctccacctcc caaacaaaga agctccccag tcaccaagag acgttcacct tcattatcat    2160
ccaagcatag gaaagggtct tccccaagcc gctctacccg ggaggcccga tcaccacaac    2220
caaacaaacg gcattcgccc tcaccacggc ctcgagctcc tcagacctcc tcaagtcctc    2280
cadccgttcg aagaggagcg tcgtcatcac cccaaagaag gcagtccccg tctccaagta    2340
ctaggcccat taggagagtc tccaggactc cggaacctaa aaagataaaa aaggctgctt    2400
ccccaagccc acagtctgta agaagggtct catcctcccg atctgtctcc gggtctcctg    2460
agccagcagc taaaaagccc ccagcacctc catccccgt ccagtctcag tcaccgtcta    2520
caaactggtc accagctgta ccggtcaaaa aggccaaaag cccaacaccg agcccatcac    2580
cgccaagaaa ttcagatcag gaaggaggtg gaaagaaaaa gaagaaaaag aaggacaaga    2640
aacacaaaaa ggataagaag cacaagaagc acaaaaaaca caagaaggaa aaggctgtgg    2700
ctgcagctgc tgcagctgct gtgacccctg cagccattgc agctgccaca accacattag    2760
cacaggaaga gccagtggca gcgccagagc cgaagaagga gactgaaagt gaagctgaag    2820
ataaccttga tgatttagaa aagcacctgc gtgaaaaggc cctgagatca atgaggaagg    2880
cccaagtgtc cccacagtct taggggaa tgtttgttat gatgtaaatt ttatttggtt    2940
tgtacgcagt tcaatttcaa aattgctaaa atgtgtttga gctttagact ataacatttg    3000
ttgtaataat tgctaggttg aagttcaaca tgtaaaaaaa ggggcatgg atttacattg    3060
caaaaggtgt ccacagtgta ttagtgacat tctttcattg acagctgaca taattcattg    3120
agtgaaatat tttaagccaa aaaaaaattc ccttttaaa aaggggggtt taaatactgt    3180
tggcattttt atggttcctt taaatgccct agctattccc agaggggttt ttttgtttgt    3240
ttttttggtt ttgattttct ttttgttttt cttctcttt cttatttttt tcatttgagt    3300
cttagctccc atttaagtta tgcttctgac cttgtatggt ctgtaagctt gcccagaaat    3360
aagaccactg ttttgaacta ccacaaaagt ataaatgaat attttaatgc cacaatcttt    3420
cctgttgcct gtggagtctc tgctgaaatg aatcaggatt cgagctctag gatgagacag    3480
aaaatgaaag catgttgttt gccaggacac tgtgggttta tattgatgtg taacaagttg    3540
atttggaaca ctggactctc attctgttat tctggttttg ttttttttgt tttgtttttt    3600
ttcttttgta aaggcaatga gctagtccca gaaaggatcc ttcagttaca tacaatttgt    3660
ttaatgaaat gtcatggctc tgttcatatt tttgtcttgt tcttccaatt ggtatataca    3720
actttcagag cctcttgtat ttggaaggct ggaagggccc agactttgga atagtgtctt    3780
```

5117

```
ggtttcactg tttttgtttt gatttttttt tttgttttga ttttttttta aactaaagct    3840
atataaagct tgtggattaa acagaataaa tttctaaatt taaaaatttt aaa            3893
```

<210> 6481
<211> 1860
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (181)...(1575)
<223> similar to gi3098311 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6481
```
tttcgtggcg gtgcactgcg ccgccaccgt caataggtgg accccctccc ggagataaaa      60
ccgccggcgc cggcgccgcc agtccctctg gctgagacct cggctccgga atcactgcag     120
cccccctcgc cctgagccag agcaccccgg gtcccgccag cccctcacac tcccagcaaa     180
atgggcaagg agaagaccca catcaacatc gtggtcatcg ccacgtgga ctccggaaag      240
tccaccacca cgggccacct catctacaaa tgcggaggta ttgacaaaag gaccattgag     300
aagttcgaga aggaggcggc tgagatgggg aagggatcct tcaagtatgc ctgggtgctg     360
gacaagctga aggcggagcg tgagcgcggc atcaccatcg acatctccct ctggaagttc     420
gagaccacca agtactacat caccatcatc gatgcccccg gccaccgcga cttcatcaag     480
aacatgatca cgggtacatc ccaggcggac tgcgcagtgc tgatcgtggc ggcgggcgtg     540
ggcgagttcg aggcgggcat ctccaagaat gggcagacgc gggagcatgc cctgctggcc     600
tacacgctgg gtgtgaagca gctcatcgtg ggcgtgaaca aaatggactc cacagagcca     660
gcctacagcg agaagcgcta cgacgagatc gtcaaggaag tcagcgccta catcaagaag     720
atcggctaca acccggccac cgtgcccttt gtgcccatct ccggctggca cggcgacaac     780
atgctggagc cctcccccaa catgccgtgg ttcaagggct ggaaggtgga gcgtaaggag     840
ggcaacgcaa gcggcgtgtc cctgctggag ccctggaca ccatcctgcc ccccacgcgc      900
cccacggaca agcccctgcg cctgccgctg caggacggtg tacaagattt ggcggcattg     960
gcacggtgcc cgtgggccgg gtggagaccg gcatcctgcg gccgggcatg gtggtgacct    1020
ttgcgccagt gaacatcacc actgaggtga agtcagtgga gatgcaccac gaggctctga    1080
gcgaagctct gcccggcgac aacgtcggct tcaatgtgaa gaacgtgtcg gtgaaggaca    1140
tccggcgggg caacgtgtgt ggggacagca gtctgaccc gccgcaggag ctgctcagt     1200
tcacctccca ggtcatcatc ctgaaccacc cggggcagat tagcgccggc tactcccgg    1260
tcatcgactg ccacacagcc cacatcgcct gcaagtttgc ggagctgaag gagaagattg    1320
accggcgctc tggcaagaag ctggaggaca accccaagtc cccgaagtct ggagacgcgg    1380
ccatcgtgga gatggtgccg ggaaagccca tgtgtgtgga gcttctcc cagtacccgc     1440
ctctcggccg cttcgccgtg cgcgacatga ggcagacggt ggccgtaggc gtcatcaaga    1500
acgtggaaaa gaagagcggc ggcgccggca aggtcaccaa gtcggcgcag aaggcgcaga    1560
aggcgggcaa gtgaagcgcg ggcgcccgcg cgccgaccc tccccggcgg cgccgcgctc    1620
cgaaccccgg cccggccccc gcaccgcccc cgcggcgcgc gccgctccgg cgccccgcac    1680
ccccgccagg cgcatgtctg cacctccgct ttccagaggc cctcggtcag cgactggatg    1740
ctcgccatca aggtccagtg gaagttcttc aagaggaaag gcgcccccgc cccaggcttc    1800
cgcgcccagc gctcgccacg ctcagtgccc gttttaccaa taaactgagc gacCCCaaaa    1860
```
```

<210> 6482
<211> 964
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (231)...(741)
<223> similar to gi309504 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6482
```
tttcgtggct atgcccggac agaggatcgc ctcgctggcc tactctctcc tcccgtacgg      60
cgccggaatc ccagctccac ttaccaggcc gcggctaccc cgccgtcccc cccgactccc     120
gccacccccgc tctctcaggc tcttcaggat ccaagtccgt aggccctta agggggtctag     180
ttgccgtttg cgaggccctg ggactttggt cccagacagc ggggatccgg atggcttccg     240
tgcggatccg agaggccaag gagggagact gtggagatat cctgaggctg attcgggagc     300
tagccgaatt cgaaaaactc tcggatcagg tgaagatcag tgaagaagcc ctgagagcag     360
atggctttgg agacaatcct ttctatcact gtttggtagc agagattctt ccagcgcccg     420
ggaagctact ggggccctgc gtggtgggct atgggatata ctatttcatc tacagtacat     480
ggaagggacg caccatttat ctggaggata tctatgtgat gcagaatatc ggggtcaagg     540
gattggttcc aaaataatca aaaaggtggc tgaggtggcc ttggataagg ctgctcccca     600
attccgcctg gccgtcctgg actggaacca gagggccatg gacttgtaca aggccctagg     660
agcccaagat ctgacggaag ctgagggctg gcacttcttc tgctttcaag gagaggcaac     720
gagaaagttg gcaggaaagt gacgccatcc ctaggaggat ctctgtcttg agtttctcct     780
tccccatcag ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctc     840
cctggaggaa ggagggttag gggtgcctat cctcaagtat tggaagagca gaattgaggg     900
agagaccttt cttccttgtt gagggtgaaa aataaataag aattacatgt cctgaaaaaa     960
aaaa                                                                 964
```

<210> 6483
<211> 1673
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (248)...(1390)
<223> similar to gi3820979 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6483
```
gccaggcatg gaacaccact cggtgccgga taggccgacc ccacctggac tccacccccg      60
cagcatgcct cgaccgcggt ccgcaggtgg accgcctctc cccgccccc agggtgcgct     120
ggtcccgggc gcgcgctcat acctccgcat gccgggcgtg gtcgggtaag tccccggacg     180
tgacccatgc ccgggggagct agtctccgcc cttcgctctt acggatcccc tcggagtacg     240
```

```
ccgcaccatg cagctcaggc tcttccggcg cctccttctc gccgctttgc tgctggtgat     300
cgtctggacc ctcttcgggc cttcgggggtt gggggaggag ctgctgagcc tctcactagc     360
ctccctgctc ccagcccccg cctcaccggg gccgcccctg gccctgcccc gcctcttgat     420
ccccaaccag gaagcttgca gtggtcccgg ggcccctccc ttcctgctca tcctggtgtg     480
cacggctccg gagaacctga accagagaaa cgccattcgg gcttcgtggg gcgggctgcg     540
cgaggcccgg gggctcaggg tacagacgct attcttgctg ggagagccga acgcacagca     600
ccccgtgtgg ggttcccagg ggagtgacct ggcctcggag tcagcagccc aggggggatat     660
cttgcaggcc gccttccagg actcctaccg caacctcacc ctaaagaccc tcagcgggct     720
gaactgggct gagaaacact gccccatggc ccgatacgtc ctcaagacgg acgatgatgt     780
gtatgtcaac gtccctgaac tggtatcaga gctggtcttg cgaggggggcc gttgggggca     840
atgggagaga agcacggaac cccagagaga ggctgagcag gaaggaggcc aggttttgca     900
cagcgaggaa gtgcctcttc tgtacttggg ccgggtgcac tggcgcgtga acccctctcg     960
gacaccgggg ggcaggcacc gcgtatcaga ggagcagtgg cctcacacct ggggcccctt    1020
tccaccctat gcctcaggca cggggtatgt gctgtcagcg tctgctgtgc agctcattct    1080
caaggtggcc agccgggcac cccttctccc attagaggat gtctttgtgg gggtaagtgc    1140
ccgacgagga ggcctcgccc aacacagtg tgtcaagctg ctggtgcca cccactaccc    1200
gctagaccgg tgctgctatg ggaaattcct gctgacgtcc cacaggctgg acccctggaa    1260
gatgcaggaa gcctggaagc tggtgggtgg ctctgacggg gaaaggactg cgcccttttg    1320
ctccctggtt cccagggaag tccctgggca tcctgcggtg tcgaagcaat agccctggct    1380
tcagagctga gagtgcctgg ggcccacagg aaaggcagga acaggacctt ctctctcccc    1440
aggcccaacg caggggccct cactggctgc agctgatctg ttttccttat accagatcct    1500
cagtctcact aaagacagcg atatgggaga cacccagggg gcctggcccg ccagcccaaa    1560
agatggtcat cgggaagaga aaaagaaaaa aatgctgcag ttgttctctc aagctagggc    1620
agaagagggg tgtcaagctc ctcaataaac ttgtctccac ttcaaaaaaa aaa           1673
```


    <210> 6484
    <211> 1312
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1153)...(431)
    <223> similar to gi2734092 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters

    <400> 6484
```
gtgggttgtt cagccactga attacccagc tcgccacaat tggaaaccag catatgagcc      60
tgaaagaaac gcggtattgc caacaccct cccctaaggt catcatagca ttgaagacgg     120
gcttctatac atcaacgatc tagcatatgg taccatgtcc atacgcttaa cgacgcatgc     180
agctaatacc tcataaagat aagtgcgcgc taataagact ttttttttctt tttcaaacag     240
taatgtttaa ttgagcacct catctccacc ctgactctca gggctgtgac agctgcaccc     300
acagcaacct gggcacggag gcaaggggggg cccacaagtg agggagggca cacaaagtca     360
gagggcagca aggaggctga ggggcagtgg gagtgccagg agcagggtcc tggatggggc     420
tggcagggcc agggcctgcc cgttgaggca gtcccagatc cagtgttggt aggaggagac     480
ctgtaggtag atgggtgggg gcctcgctct tctggcagcc tgcaccccag ctcaccaatc     540
ccaccaggta gcagcgtgcc ctccatggag cagaccaagg gctctccagt tagctcatag     600
cagaacttct ccctgtgggt gtcctccgca cacatcatct gggacttgat gatctgaacc     660
agagtgggga ttttggtgaa gttgtggtag aaattgtcac actctttgtt gttcaggatg     720
atgacttcct tctcctgaat ggtccggaac tgaggccaca tgccgtcagc cttggaaagt     780
```


                                5120

```
ccccagcccg tcacagtgca gcgggaatgg tccttcaaca catagtccgt gccaggcagg      840
cagatgggcc gcacgtaatt gctgtacttg agttcctgct tgagcttgag gaggccgatg      900
tcgttggcct ggcccaccca ggaccagaac cgctgggccc ggtacctgct atgcatgatg      960
acctggagca ccgggacatc ggaggcggtc tgcgtcatct ggtcaatcca cggactcccc     1020
accctcactg agtagataac atcacgccag atcaggcagt gggccacagt cagcacccac     1080
tgggaggcaa tgatggtgcc ggcacagatg tgtgtgccat ggcccgcac gctgaccatc      1140
cagggccacc gccgagccac ggcttctggg tccctgaggg tggggtcctg ctcgtaggaa     1200
aagccacagg agcggtatgg gtcgactttg ccttcagaaa ctgggaattg ggtctccatg     1260
gtggtcgagg gcagaattcc tccgctctga ctaaggtatc gaagttttat ct            1312
```

```
        <210> 6485
        <211> 1350
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (18)...(1140)
        <223> similar to gi4929595 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters
```

```
        <400> 6485
tgttggttgg agcgagcatg tgggtctgca gtaccctgtg gcgggtgcga accccccgccc      60
ggcagtggcg ggggctgctc ccagcttctg gctgtcacgg acctgccgcc tcctcctact      120
ccgcatccgc cgagcctgcc cgggtccggg cgcttgtcta tgggcaccac ggggatccag      180
ccaaggtcgt cgaactcaag aacctggagc tagctgctgt gagaggatca gatgtccgtg      240
tgaagatgct ggcggcccct atcaatccat ctgacataaa tatgatccaa ggaaactacg      300
gactccttcc tgaactgcct gctgttggag ggaacgaagg tgttgcacag gtggtagcgg      360
tgggcagcaa tgtgaccggg ctgaagccag gagactgggt gattccagca aatgctggtt      420
taggaacctg gcggaccgag gctgtgttca gcgaggaagc actgatccaa gttccgagtg      480
acatccctct tcagagcgct gccaccctgg gtgtcaatcc ctgcacagcc tacaggatgt      540
tgatggactt cgagcaactg cagccagggg attctgtcat ccagaatgca tccaacagcg      600
gagtggggca agcggtcatc cagatcgccg cagccctggg cctaagaacc atcaatgtgg      660
tccgagacag acctgatatc cagaagctga gtgacagact gaagagtctg ggggctgagc      720
atgtcatcac agaagaggag ctaagaaggc ccgaaatgaa aaacttcttt aaggacatgc      780
cccagccacg gcttgctctc aactgtgttg gtgggaaaag ctccacagag ctgctgcggc      840
agttagcgcg tggaggaacc atggtaacct atggggggat ggccaagcag cccgtcgtag      900
cctctgtgag cctgctcatt tttaaggatc tcaaacttcg aggcttttgg ttgtcccagt      960
ggaagaagga tcacagtcca gaccagttca aggagctgat cctcacactg tgcgatctca     1020
tccgccgagg ccagctcaca gcccctgcct gctcccaggt cccgctgcag gactaccagt     1080
ctgccttgga agcctccatg aagcccttca tatcttcaaa gcagattctc accatgtgat     1140
catcccaaaa gagctggagt gacatgggag gggaggcgga tctgaggggc tgggtgcagg     1200
cccctcagtt ggggctccca ccttccccag actactgttc tcctcactgc ctcttcctat     1260
taggaggatg gtgaagccag ccacggtttt ccccagggcc agccttaagg tatctaataa     1320
agtctgaact ctcccttcca aaaaaaaaaa                                      1350
```

<210> 6486
<211> 4406
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4087)...(2093)
<223> similar to gi439296 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6486
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ttcaaagatc aggcgtgggg acccacacct tggcctccag gcctaaggag gagtgttacg   180
tgcagtagca cccgtgggtg tgatcccaac caggactggg tctgcctggg tgctccacac   240
accaccaggg cctagccctg gctctgccca ttgactctcc cttaacttcc tctgggcctt   300
ggtgttctcc tctgtaaaat ggggtggaga gagtggcatt ttcactttct cgcacattac   360
tgagcccaca tcatgagcca gactgtgggc caagcacagg taagatgatg aagacagcaa   420
aacaaggtct tgagttggtc ccagcacgtc cattcttccc agacagctca tgactccatg   480
gtatgaggga tggggggtcat ctgggtgagg cttttttacct gtttttgtaa gagggaaaaa   540
agatccttgc atgatgaggc acagaaagga agtttggagc cagcattatc ttgtgatgtg   600
atagctgaga gaggacatca ctctggtcca acccccaatc tcaccccaca aataagggct   660
cttttttccc ccagaggctc tgtataagct ctccacaagt ttcattctct tcctaagcct   720
cagtttcccc atctgtgcaa tggggaggtt ggattccata gtctcaaact ccaggctctg   780
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accagggtgg aaaggaaggg aggagggaaa caggcagaga aggaggagag cgcctgcagc   900
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ctcgggctat gtggggccac ttcctgtcca cttaacggcc tgcagcccct gcagtggtaa  1020
agatcaggcc ctggagacag aaggatgaag gtttgaatct cacctatggc attagttagc  1080
tggggccctg gaaggagatt ttcagaactt cagtttcctc ttttataaaa cggggataaa  1140
atatagagat gtcacatagg ggcagacaca aggcttggat tcaaatccac atctgccaag  1200
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caacaccaga tccgagacac actcgtacag ctccaattct ctcttccggt cctaagcttt  1500
tcattttcag agagactgaa agtcattctc agaagacgtg acaaacagtc tgcttggaaa  1560
tgtctcagac aaatcctcct gggcttggcc ctccctcacc ctggcacagc cggggcagga  1620
ctcaccgcac caaaccagcg gggcctgccg agctctggag ccctgggctt tcacacctca  1680
ggccctaagc acactgcgtg gcggccacgt ggctctgcag cactctctcc taccagactg  1740
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ccaggccacc catggcactg cctggcagga ggctgaagct gttgtttcgc aggtccagca  2460
cctccagtga cacagcctgt gtccaggcgg gaaggtggct caggcggttc tcggcaagat  2520
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tgagccgctt gaggcagatg aagcagggca ggtccacctg caggaccatc agcccgttgc    2580
cctgcagtgc caggacctcc aaggaggcct ccaggcctcc caaggccccc gtggccacct    2640
ccagcccagg attggaagaa aggtccagct cagtcagtgg ggtgtggagg aaggcccctg    2700
ccctgagcag ctctatctca ttatccacca ggctcaggct gcggagggag gtgatgccgg    2760
agaaggccca cacagccgga agggcccagg ctcatctggg cccccacagg ggctgactcg    2820
gttcccctgc aggttgagcc gctgcaggct ggccagattg gcaaaggtgt atgggggcag    2880
gtcccgcagg gcattgccct gtaggagcag cgtccgcaga dacccccagg gctctggcgc    2940
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agcctaagcg ccgggcctca aaggtccgca agcagtttct gctgaggttc aggaagcaca    3060
gggaggtcag gtgctcaaga aagctgtcgg ggatgagctc aatctcattg tagctcaaat    3120
ccagattcaa gagctgggaa aggggggcggc cgctggcatt cccgctgggg gctggagagg    3180
ggcagggctg accagccctc ggaaggtgcg tggatgccct tgctgtcctg gggtggccct    3240
gtggggagcc ggatgaggtt gttggacaag ttcaggtaga tgagtctcgg gagcgcggcc    3300
aggtcgggga aatggagcag tttgttctcc cgcaggtcaa gccaggtgag ctggaactca    3360
gcctgggggct ggcgaggccg tctgaaaggc ctcgatgctg ttgcagctca ggtctagcac    3420
ccgcagctgc tggaggctga agtcggagat gcaggtgagg gaattcctgg agaggttgag    3480
atgggtcagg cggggcaggc cctcgaaggc gccatcctcg atgtccatca gcacgttgct    3540
atgcaggtca agctgctcca gcgcaggcat gtcccggaag gtgtggcggg tgaggcgagt    3600
cagactgttc tccgccagtg agagggtatg caggctgggt gcctcccca gcagccgctc    3660
cagcaggccg ctgtacaggc tgttcccaga caggtccagg gaggtcacgc gtggcagggg    3720
gcccaggcca ccagcactca gcgcagtggc catcgccagc cggttgtgag ccaggctgag    3780
gtgctccagg tgggtcaggg cctggaaggc tcctggctgg aggaagctga tctcattggt    3840
gctcaggtcc aggtgacgaa gtgccgtgta gaagcccagg ggtgaggcca ggatactccg    3900
cagctggttc ccagatagat caagggtctc agtgtctggc gggagcaccg aggggacctg    3960
gaagcaggcc cagaacctgg cacgagacct tcttgtccac catcttacag ggcactttgt    4020
cttggtgttg tgcagccagg cctagggtca gcaggccag gagcagcagg atctggggtc    4080
tcatggctcc aaagtcacac aaggagaaaa tagcagggtc acgatcagaa tccagttcat    4140
ctgtctccaa agcaaatgtt cccactatac caaatcaagg tctccttccc taagccctgc    4200
caacgacccc tcacacgcag gagcagggca gactagctca cagtctggcc tctgaggtcc    4260
tctctccctc ctctcggcct cagctgactt actggcagag tggggtcctg ggagagctgc    4320
tgcggacgtt cctgtcaagc agtgaatcac taagggcaag cctcgatctg gagacatgtg    4380
catcccacgg gggaattaga ccttaa                                        4406


    <210> 6487
    <211> 1835
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (106)...(743)
    <223> similar to gi5911864 in the genepept database release 114,
       Run with FASTXY 3.3t00, default parameters




    <400> 6487
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gttgaagaca ctgtgctttt ctcaagaagg acatccaaac agcaagtcta cttctttctc     180
tttaacgatg tgctcattat caccaagaag aagagtgaag aaagttacaa cgtcaatgat     240
tattccttaa gagatcagct attggtggaa tcttgtgaca atgaagagct taattcttct     300
```

5123

```
        ccagggaaga acagctccac aatgctctat tcaagacaga gctctgccag tcacctcttt      360
        actctgacag tccttagtaa ccacgcgaat gagaaagtgg agatgctact aggagctgag      420
        acgcagagcg agcgagcccg ctggataact gccctgggac acagcagcgg gaagccgcct      480
        gcagaccgaa cctcactgac ccaggtggaa atcgttaggt catttactgc taagcagcca      540
        gatgaactct ccctgcaggt ggctgacgtc gtcctcatct tatcaacgtg tcagcgatgg      600
        ctggtatgag ggggaacgga ctacgagatg gagaaagagg ctggtttcct atggaatgtg      660
        ccaaggagat aacatgtcaa gctacaattg ataagaatgt ggagagaatg ggacgcttgc      720
        taggactgga gaccaacgtg tagtctctca gatggtcttt tgttactgca agatttgcac      780
        gacacttacc gggctggttg gttctgggct agttttattg ttaattttgt cacagcctat      840
        ttaattaaaa gaacgaaaac acttgccttt aagcttgcca ggttgttccg ctctctcatg      900
        agaagagctt gggatacagt gagtttgcac agcttcagtt tttacctaac cacacacttg      960
        gcagacctcc tgaggtacac agaataggct ggagcagttc acttcaggga tcaggttcat     1020
        ctctggttcc tcctagtttc accatgttct ggcaataaaa aacacatatt atatcctggt     1080
        tttctctatc cttgcattac taaggtgact gtctctcttt atacatcctt gtatggttct     1140
        cccagtatta gcaagattgt atatctgtaa agaatgtcca gttttgtaaa tatttccctg     1200
        cctttttttt tcttttttta catctgattt taatgcttcg ttaacttcaa aaggaactgg     1260
        tagagttcaa aaggtgagct gttgtttttc taaacctctt cccaggaagg ggacattgac     1320
        acttgaattt ttgtcacctt tttcctcatt agaaggaaag tagaaagcct tactgtagga     1380
        tttttaaaaa aaaatccatc tcaccccata ttggtcttaa ataagtatag actaattaac     1440
        ctaagctacc tttaacaacg taaaatttag atgggttcat atatgtgaga aaaacctgaa     1500
        tataggacag gggtcctact ttttttcccca cctctgtcgc ccaggctaga gtatagtggt     1560
        gtgatcttgg cccactgcaa cctctgcttc ctaggttcaa gtgattctcc tgcctcagcc     1620
        tcccaagtag ctgggattgt aagagtatgc caccacgccc agctactttt tgtattttta     1680
        gtagagacag ggtttcatca tgttggccag gatggtctct taactcctgc cctcaagtga     1740
        tccaccagag aggagatcct cggcctcccc aagtgctggg attataggca tgagccaccg     1800
        tgcccagcct actttctaat taattaaaaa aaaaa                                 1835
```


        <210> 6488
        <211> 4600
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (4346)...(2670)
        <223> similar to gi2326996 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6488
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tttttttttt ttaggggcaa actgaagttt tatttagaat gaaaaaatag atcaacaaat       60
tacagatttt aaagagctaa aaaattccca cagatgtcac ggagtccagg ggaataacag      120
cctggttgga ggggcgctct ccgcctcttc tgtatttttg gctctctctg agggtagtgg      180
ttttaccagc atgctttatc aaaaactaaa ctatcaggga gagtctacaa aaactcctgc      240
tagagtaagg tcagattcca gaccctgtcg cacctctgaa gaccttggtc cagttccttc      300
cagggtggct tcacgccttg ccatccctgc ctccctgcgg ctgcccctgt gcccaggccc      360
cgccaacgcc gtcaaggccc cctcggccac gccgcgtccc cgcccagcat ctcggatgcc      420
attccttccc ggtggcacct gcccaggctt tgccgaaatc gaaggcaaca agagggggag      480
gtgggcttaa gagtgcctgc ccggccgcca cctgtcttgg aggtggaggg aatggccgag      540
gggtggctcc cccagctccc cacctttgag catctctcag gctgggaaag ggcaaagggc      600
cacatgaagc cagcaggcac ttcagtgcca cgtccccaga gggacagtcc tcccacccag      660
```


5124

```
gaacccctgg ctgcccagaa agcaccaccg gcaaggccgc ctccaccgca cccgtgagag    720
gactcggcag ctgtgaagga actgggagat tctgcagatg ggccgaggtc agggcttcca    780
ggctaggaag aagtcttcca gatgcctagc ttcaccagtc ccaggagaag gaaggaaggg    840
gcatgggcag aggcctggca ggggaggagg aagaggccaa ccctgtacac aggaccacag    900
gacagggtgg aggactgtcc caggagtccc tccacaacag gaggcctggt cccagtggcc    960
cctctctcta ggggttccct gctgccacca tgtccacaga ggagtcacag cttccatggc   1020
ccagccacaa gttctggctt aaagtcagaa caggagagag gccctcaact ccagtgaagc   1080
atgcagctcc tttttcaacc ccaacacctc tgacgaagca tgtttgttat atgaaggcaa   1140
ggatcatgat ggcacgaagc atgttatatg aaggcaatga ccatgagcac gaagcatgtt   1200
atatgaaggc aatgaccatg atggcagctg ccaccaaaat actttaccag cacacccttc   1260
tgactgcagc atttctcaga agaaaggctc aggtgaaaag ttcctggaat tttccagatc   1320
ttcagtggat ctattagcat tgccacatac caaaataagg aatttcccta aaggttaact   1380
tctaatccag caaaactttg ctcatacctc aaaacggagc caagactcag actaatacac   1440
acaaatcaaa atggacaaaa gcaagtcttg actcgcttga caaacagaat agacacaaaa   1500
gaatgtacaa ccaatacaat tccagaatgt ccctgaaagg aaaaagcacc ctgtactgac   1560
atgaaataaa tgttaacctt gagattacac taacaatgcc ttttttttaag agatggtctc   1620
gctctgttgc ccaggctgga gtgcagtgtc atgatctcgg ctcactacaa ctcccacctc   1680
ccgggttcaa gagatcctca tgcctcagcc tcttgaatag ctgggattac atatgcatgc   1740
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gcagtctgga actcctgggc tgaagtaatc cccctgcctt ggcctcccaa agtgctggga   1860
tcacaggtgt gagccactgc acccagccag gccaattctt tatcaggaat ttccaattcc   1920
catttccatt taacaagaga ctaactaact gaattaatcc tgccttctaa tgtttctgga   1980
acacatcctc taccttcgct gccggctcct ctgatgtccc aagggccttt tggtagcagt   2040
tagcatcatt tagcaaatac agagtggaaa gagtgtgccg gaggcccggg cttgggtgtg   2100
ctgtctgctc ctgtggcctg tcaggcaggt ccagggagac acaagggaag cctgagggac   2160
cctgactccc cttgaagaat ttctccatac agcaagacag tgtggcttta tcccagatcc   2220
ctgactccta aaaagagtct aaaaagagct aagttctctc taaattcttt aatggttcat   2280
gaccaaattc ttggttctaa gactttgaat ttttaaataa tagatgtgca gcttgacttg   2340
ggtaaaaact agaaacctgt tctcccaccc aggcctttgc tttagtaatt atcaagctga   2400
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tctgactgag tctgggctga gggacctggc tctgcatttt gtaaaataga tactagcaga   2520
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gcgtggccac aggtcatcac ctgtcctgtg ccctggcga gcctgatccc tcacgccggg   2640
cacccacacg gcctgcgtgc cttctagact tgagttcgca gctctttaag gagctctcgg   2700
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aggtcctggg ctgagaggct gctgcttctg gacattgcca ggaggtggcc cagcacggcc   3000
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gccaagagcc acagcagggc cgtgggggggt tcggctgccg acatcagtaa ttgctctgcc   3120
accatctcag cccatcctcc gaagtgaatg aacaggaacc agctctcaaa gggacctccg   3180
caggacccat gagtctggtc ttcaactgct tctctgagca gttcagaaat atgcttcagt   3240
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gagatggaga agtgtaagga aagtagggtc ttgagtgcaa accgcagctg cttgcttgct   3360
ttctccagag cttctacaaa gcactgcgtt aaacacctga atagtggcta tgatttccag   3420
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cagggtggca ggctgcttga ggcagcgatg aatcttttat aaagcattcg atccttctca   3540
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acccaggata gtaatctata ggtgcatacc caagaccttg agtgaaaaga gcaacttctt   3960
tatcaaatct gagtgctgaa agtatatgag ataatccccc ctgtatccag gagttaagtt   4020
ttgattgtcc agaattctgt ggttctttgt taattagaca acataagcac catattagaa   4080
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5125

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ttttttggct ttcatcatat gctaaaataa aaggattcca acaagctttt gccaacagtt    4140
gaccaattgt ggggaatctt tcaatgactg tattagaatc catctctttc aaggcttcat    4200
acatcttcct taggaactcc tggaactgag ccacgtgaag acaggtgtct tgctgggttt    4260
ccaaagtgga agcctgatcc catacagaaa gcttctgcat ccaaaactga taatcacaag    4320
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gaaaatttgg ctttgcctcg tattggcttt ttgagttttt ttggaatttt cccgcggtcg    4560
cccggcagtg gagccgcgcg cgcgcacacg tgtcagcagt                          4600
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        <400> 6489
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ctcaaagtgg taagtttcta aaatttagca ctgtgggttt taaagaaagg taaacatttg     180
tgtaacataa ggaatagtct aattttctag cctcgttgaa ttaaaataca aatgtttgag     240
ttaaaatttt acacatctag aaaattgaca acttctttgt gtactatgtg atatgactga     300
ctaatttttt cttctttatg aacaagacct attctctttg aaccattccc tggtatcttt     360
cattctccct acgctcacag aaccaaacta agacatggga aaaagccttg acttttggga     420
ctgcttctct tccataagaa ttttcagtag ataaaatttt aaaagtgctg caccttccct     480
gagtgaaaat tccctaagga tgcatggtta gcatttcagt tctaattaag gcagactgga     540
tcctggctaa ctggagtcat ggggtatact ttcattcatg agtggaacag cagtgtctta     600
gcagcactac atctgcaatg ttcattgtga agtggagtca ggacctcgtt ggaagacttc     660
gttctgcgtc atgccaactg cattttatgg tgataacatt ctccaaatag cacctctaca     720
atcatttttc agtcgttacc cttttaactc agcaggaaag gctattacag atacttcttt     780
aaatcagtgt ttattgacag ggaaaagcac cagcaataca cacttaacca aatccttgca     840
aatgtcatct attaaatatc ttcatcctta ttagtctgtt ttactttgaa tatcttctga     900
gtgaaattga gtgcattccc atatcttttc accaattata tttgtttttcc tatgacccaa     960
tttgttcatt tttctattga atgaaccctc tccccaaaga gttccgcatg tgccaatttt    1020
tctactcaat tatttacctg tgttgcatta aacttataat atctttttta aaaattaacc    1080
ctttatcata agtgctgcaa acacttagtt gaagtttgcc atatcttttg actttgtaaa    1140
aacttttggc atatgagttg tatatttcat gtagtcaaac agtaatcttt tcctttatgg    1200
attccaattt ttaaatggtt tatatttta gctaaatttt caggagtgaa aagaaaaaga    1260
ggaaggaaga aacccctctc aggcaatcat gtacagccac ccgaaacaat gaaatgtaat    1320
acattcataa gacaagtgaa agaagagcat ggcagacaca cagatgcaac tgtgaaagtt    1380
ccttttctta agaaatgcaa ggaagcagga cttcttaatt acttacttga agaaatatta    1440
gacaaagttc attcaattcc agaaaaactc atggatgaga ctacttcaga atcagactat    1500
gaagaaatcg ggagtgcact ttttgactgt agattgttcg aagacacatt tgtaaatttt    1560
caagcaggta tatgagttat ataacatctg agcagcatag ttgagaaata tcatgatatt    1620
gaaacaatat actatacagg tgataaaaat attttagaag aatgttcatt gttttcttaa    1680
```

```
atgagaaaag ccaattacaa aaacagtatg accccgccca ccccccaca cacacaggaa      1740
aaaaatattg aggtacatgt gcacagacaa aagctgcacc tggtggagac agtagttggt      1800
tgtaggtagt tggaatatag ggattttggg ctgttctttt actgctatat tttccagatt      1860
ttctgtatac acacaaatac ttttataatg agaaaaactc attaaaaagt agagacaaca      1920
aaaatttgat caaaatttga gcatattttg ccttgggggg g                          1961


        <210> 6490
        <211> 2928
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (232)...(2773)
        <223> similar to gi4454791 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6490
ttacgtgcaa ctcagtaaca gcccgagagc cgggaaataa aaataacccc tcagagcgat        60
ggatttcggg gccgcccggc ggccgaggcg cccgccgaag gccctgctgt aaaagagagg       120
aggttcagat gagcccctgc tgacttgaga gagacagaga gaccacgccg attgctgaga       180
ggaactggaa gaagaaaaat tcccagactc agtgggaaga gctccctcac catgagtagc       240
gctatgttgg tgacttgcct cccggacccc agcagcagct tccgtgagga tgccccgcgg       300
ccccagtgc caggggaaga aggggagacc ccaccgtgtc agccaggggt gggcaagggc       360
caggtcacca aacccatgtc tgtctcttcc aacaccaggc ggaacgaaga tgggttgggg       420
gagccggagg ggcgggcatc tccggattcc cctctgaccc ggtggaccaa gtccttacac       480
tccttattgg gcgatcaaga cggtgcttac ctgttccgaa ctttcctgga gagggagaaa       540
tgcgtggata ccttagactt ctggtttgcc tgcaatggat tcaggcagat gaacctgaag       600
gataccaaaa ctttacgagt agccaaagcg atctacaaaa ggtacattga gaacaacagc       660
attgtctcca agcagctgaa gcctgccacc aagacctaca taagagatgg catcaagaag       720
cagcagattg attccatcat gtttgaccag gcgcagaccg agatccagtc ggtgatggag       780
gaaaatgcct accagatgtt tttgacttct gatatatacc tcgaatatgt gaggagtggg       840
ggagaaaaca cagcttacat gagtaatggg ggactcggga gcctaaaggt cgtgtgtggc       900
tatctcccca ccttgaatga agaagaggag tggacttgtg ccgacttcaa gtgcaaactt       960
tcgccaaccg tggttggctt gtccagcaaa actctgaggg ccacggcgag tgtgaggtcc      1020
acggaaactg ttgacagtgg atacaggtcc ttcaagagga gcgatcctgt taatccttat      1080
cacataggtt ctggctatgt ctttgcacca gccaccagcg ccaacgacag tgagatatcc      1140
agtgatgcgc tgacggatga ttccatgtcc atgacggaca gcagtgtaga tggaattcct      1200
ccttatcgtg tgggcagtaa gaaacagctc cagagagaaa tgcatcgcag tgtgaaggcc      1260
aatggccaag tgtctctacc tcatttcccg agaacccacc gcctgcccaa ggagatgacc      1320
cccgtggaac ccgccacctt tgcagctgag ctgatctcga ggctggaaaa gctgaagctg      1380
gagttggaga gccgccacag cctggaggaa gcgcctgcag caagatccga agaggatgaa      1440
gagagagagg gctccgagct cacactcaaa ttcgcgggag ggggcgccca cgcaggcacc      1500
ccctcttccc ttactgccct ccggcagctt acgagggaag acccgcagg acgatactgg       1560
acgatcacct gtccagggtc ctcaagaccc ctggctgcca gtctccgggc gtaggccgct      1620
atagccctcg ctcccgctcc ccggaccacc accaccacca ccattcgcag tacttactcc      1680
ctcgtcccgc ccggtggcaa gctgcctccc gcggccgcct cgccgggcgc ctgcccctc       1740
ctcggggggca aaggctttgt gaccaagcag acgacgaagc atgtccacca ccactacatc      1800
caccaccatg ccgtccccaa gaccaaggag gagatcgagg cggaggccac gcagcgggtg      1860
cactgcttct gccctggggg cagcgagtat tactgctact cgaaatgcaa aagccactcc      1920
```

5127

```
aaggctccgg aaaccatgcc cagcgagcag tttggcggca gcagaggcag taccttgccc    1980
aaacgcaatg ggaaaggcac ggagccgggc ctggccctgc ccgccaggga aggaggggcc    2040
cccggcggag ctggggccct gcagcttccc cgggaggaag gagacaggtc gcaggatgtc    2100
tggcagtgga tgctggagag tgagcggcag agcaagccca agccccatag tgcccaaagc    2160
acaaaaaagg cctacccctt ggagtctgcc cgctcgtctc caggcgaacg agccagccgg    2220
caccatctgt ggggggggcaa cagcgggcac ccccgcacca cccccccgtgc ccacctgttc    2280
acccaggacc ctgcgatgcc tcccctgacc ccacccaaca cgctggctca gctggaggag    2340
gcctgtcgca ggctagctga ggtgtcgaag cccccaaagc agcggtgctg tgtggccagt    2400
cagcagaggg acaggaatca ttcggccact gttcagacgg gagccacacc cttctccaat    2460
ccaagcctgg ctccagaaga tcacaaagag ccaaagaaac tggcaggtgt ccacgcgctc    2520
caggccagtg agttggttgt cacttacttt ttctgtgggg aagaaattcc ataccggagg    2580
atgctgaagg ctcaaagctt gaccctgggc cactttaaag agcagctcag caaaaaggga    2640
aattataggt attacttcaa aaaagcaagc gatgagtttg cctgtggagc ggtgtttgag    2700
gagatctggg aggatgagac ggtgctcccg atgtatgaag gccggattct gggcaaagtg    2760
gagcggatcg attgagccct ggggtctggc tttggtgaac tgttggagcc cgaagctctt    2820
gtgaactgtc ttggctgtga gcaactgcga caaaacattt tgaaggaaaa ttaaaccaat    2880
gaagaagaca aagtctaagg aagaatcggc cagtgggcct tcgggagg              2928
```

```
<210> 6491
<211> 1556
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (647)...(843)
<223> similar to gi4104681 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


<400> 6491
gaccatcact atcgccagct tggcacgagg cacacgcatg cattccaggc ggtgctgctg      60
gggctcggcg gggccgtgtc tggtctgcaa ggcgcgcggg ctcgtggggg gttggctggg     120
gagcccacgc tgcctggcga ctcgggccac cgaatgtgag accgagtccc tttatgtcac     180
cagcgcacac gctgatttga accctgcttc gacgtgtgtg tcatggctta aaaatagctg     240
ctaatctgtc aacctgtctt gggcagaaac agcggcggcg acagcagcag gagcgtcatg     300
gccgtggcgc tgtctgcgcc ggcgatccgc ctttcggact gaggcccagc gcagcgcttg     360
caaagagcag ctacctggca actgaaccca tcatcaccac agccactcct gcagctgcca     420
cggtttctgc cacctctaag atgtgccctg gtaactggct ttgggcttct atgacttta     480
tggcccgctt ctcccggagt agctcaaggt ctcctgttcg aactcgaggg accctggagg     540
agatgccaac cgttcaacat cctttcctca atgtcttcga gttggagcgg ctcctctaca     600
caggcaagac agcctgtaac catgccgacg aggtctggcc aggcctctat ctcggagacc     660
aggaagatcc tggtgcattg tgctgtgggc gtgagccgat ccgccaccct ggtactggcc     720
tacctcatgc tgtaccacca ccttaccctc gtggaggcca tcaagaaagt caaagaccac     780
cgaggcatca tccccaaccg gggcttcctg aggcagctcc tggccctgga ccgcaggctg     840
cggcagggtc tggaagcatg aggggagggg gagagaggtc aggccaggcc cgtgggtagg     900
tccctggctc ccagctggag ataggaggcc caggtggcag gtagcaggag gcccagatca     960
cccatcctcc cctggggtca ggagaggccg agccccaggc cactgtcact ctttgtggga    1020
ggggacgggg agtgaggttg ggcagtgtgg tggatgggca cccaggaagg gttgaccagg    1080
gaaggaggca gctaggctgt aaatggaaga tggtcctggg attcgaacac cgctgggatc    1140
tggccagggt gctccctggg attcacagtc ccttcccctc tttgtgccca agtgtttccc    1200
```

5128

```
tctctccctc accaaaacaa aagggccatc tctgccctgc acttgtgcag aaagtcaggg   1260
atacggcaag catgaatgca atggtgtaga gttgtgtgaa acccctagca tagagacaga   1320
cagcgaagag atggtgtgaa aagcttgcag aaccagacag agaaccccac agactttcca   1380
ctccaagcac aggaggaggt agctagcgtg tgagggttgg cactaggccc acggctgctg   1440
cttgggccaa aaacatacag aggtgcatgg ctggcagtct tgaaattgtc actcgcttac   1500
tggatccaag cgtctcgagg ataaataaag atcatgaaaa agaaaaaaaa aaaaaa .     1556
```

<210> 6492
<211> 3151
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (16)...(1809)
<223> similar to gi1575609 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

```
       <400> 6492
ggtccccaag cggagcggga ggccggaccg gggagccgag cggcggcgtc ggcggcgtcg     60
gcggcggcgg cgacggcggc gggggcggta atggcggagc tggtgcaggg gcagagcgct    120
cctgtgggga tgaaggccga gggcttcgtg gatgccctgc accgggtccg gcagattgct    180
gctaaaattg attcaattcc tcacttgaat aattccacac cttctagtgg acccctcagt    240
atatggatac ggagtacaaa aacggccctt ggatgatgga gtaggtaacc agttaggggc    300
cttggtacat caaaggacgg taataacgga agaattcaaa gtgcctgaca aaatggttgg    360
atttattatc ggcaggggag gtgagcagat ttcacggatt caagcagaat ctggttgcaa    420
aattcagatt gcttcagaga gttctgggat tccagagagg ccctgtgtac ttaccggaac    480
cccagaaagt attgaacaag ccaaacggct cctgggacag attgtggacc gctgtcgaaa    540
tggacctggc tttcataatg acatagacag caacagcaca atccaggaga ttctcattcc    600
cgcatctaaa gtgggtctgg tcatcggcag aggaggggaa acaatcaagc agttgcagga    660
gcggacaggg gtgaagatgg tcatgatcca ggatggccca ttgcccacgg gagcagacaa    720
gcctcttcgt atcactggag atgcatttaa agtacagcaa gcaagagaaa tggtactaga    780
gattatccga gaaaaagacc aagctgactt tcggggtgta cgcggcgatt tcaactctcg    840
aatgggagga ggcagtatag aggtatctgt gcctaggttt gctgtgggga ttgtaatagg    900
aagaaacggg gaaatgatca aaaagatcca gaatgatgct ggtgtgagga ttcagtttaa    960
accagatgat gggattagtc cagaaagagc tgcccaggtc atgggccctc cggatcggtg   1020
tcagcatgca gcgcatatca tcagcgagct gattcttaca gcccaggaaa gagacggctt   1080
tggaggcctg gcagcagcca gaggaagagg tcgtggccgt ggcgactgga gcgtgggagc   1140
ccctggtggc gtccaggaga taacatacac ggtgccagcc gataagtgtg gcctcgtcat   1200
aggcaaaggg ggtgagaaca tcaaaagcat caaccagcag tcaggggcgc acgtggagct   1260
tcagaggaac ccccctccca acagcgaccc caacctgcgg agattcacca tcaggggggt   1320
tcccccagcag atcgaggtgg ccaggcagct catagatgag aaagttggcg ggaccaatct   1380
cggagcacct ggagccttcg acagagtcc attcagccag ccacctgccc cacctcatca   1440
aaataccttt cctccaagga gctccgggtg cttcccaaac atggctgcca aggtgaatgg   1500
gaacccccac agcacccctg tgagtggtcc tccggccttt ctgacccagg gctggggcag   1560
cacctaccag gcgtggcagc agcccacaca gcaggtccca agccagcaga gccagccgca   1620
gagcagccag cccaactaca gcaaggcctg ggaagactat tacaaaaaac agagtcacgc   1680
cgccagcgct gctcctcagg ccagctcccc accggactac acaatggcct gggcagaata   1740
ttacagacag caggtcgctt tctacggaca gacgttaggg caggcgcagg cccacagcca   1800
ggagcagtag gacagcgtcc tcgtggccaa ctctcccctc aaaatcattg tcaaagaaaa   1860
```

5129

```
cctatttgta acagaggttt ttacatttgc aaacctttg atgaagaact gttgtttgt    1920
tctgtgaaac actatattta gattaacgga attttctaa aaatcaggaa aattagttac    1980
taaaaattgc tgatcatttt tgtttcatta tttttggtat ttcaaatgta taagctctgg    2040
gattctttt ggagcaatac ctacaaagtc aggcaccaga atgtgcctca gagctgtgac    2100
atttcaacat gatggtttg gtttggtttg gttttgtgtc ctttttattt gcagtttttt    2160
ctgttgcaac agaaagtggc ttggaagtct taggtggtat gtaacaaatt cttttaaaa    2220
attttaaagc agtatttaag tattcttaaa tgtgtaaatt catttaatgt tttacttcta    2280
atttcttgta tcttggctgt ctggtttttat tgcattttta aaaaaaactg aactattatg    2340
tattgtaatg aatgatgtga attctgaact gagacagata attgtattgc tgtccaacag    2400
gggttgggag gggcattttg tagggtttgt ataatttcta gagttcgaaa ggggtaatat    2460
aaaaatgtgc tcgtgtgttt agcctacgtt tttctcatgc ctccattacc agttgcaatt    2520
gtgtatctaa gacctccaag cttgtttta aaacaaaaca aaaaccttt ctctattatc    2580
tcagaaatat aaatactgtt atttttaata ttaagaaatt caatataact tttaacacac    2640
actgtggaac attaaaccgt ataaaaatgt agttataact attttaatt ccaaggtgtt    2700
gtttgctttt ttcttttaaa tattttctta atattttgtc agattaacta gatgaataaa    2760
taaatctagt attaaccgca ttatgaatta aataattttg atttaatgaa agggataata    2820
tgatttccag tgtttactgt agtgtatctt gtacagataa catgtatttt taaaggaaaa    2880
aaaacggaat tgaagctatt ttttcttgca tttctaattg acctgaggga cattccgttt    2940
gaaatgtact gaagttacag tttctggttt tttctcctta tttttcttat aatgcttgaa    3000
atgtctaact attaaaaaag acaattggaa aatgttatgc atggggtttt taagaaaaca    3060
aagtgttctt tttatttgac tgacaattca ttttacactc tatataataa aatctccaca    3120
aggcatcttg tgggcaaagt caaaaaaaaa a                                   3151
```

<210> 6493
<211> 1938
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1939)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (355)...(1443)
<223> similar to gi1710292 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6493
```
cgagcccgga gacttgcctt gcaatgccat gtttgtgtat gtgctctaac tcccggagag     60
caatcaggga gacggctccc cggccagact tggctgatgt tttcttgttt ctgtttcagc    120
cttcaggata attccttcag cagcaccact gtaacagagt gtgacgaaga tccagtctct    180
ctacatgaag accagactga ttgctccagt ctcagagatg aaaacaataa agagaactac    240
cccgacgcag gggctctggt agaagagcac gcgccgccct cttgggagcc gcagcagcag    300
aatgtagagg cgaccgtgct ggtggacagc gtattgcgac ccagcatggg caacttcaag    360
tccaggaagc ccaagtccat cttcaaagcg gagagcggga ggagccacgg agaaagtcag    420
gagacagagc atgtggtatc cagccagtca gagtgtcagg tgagagcagg aacaccagct    480
catgagagtc cacaaaacaa tgccttcaag tgccaagaaa ccagtgcgac ttccaaccaa    540
gaatagacca gaggactgcc acttcgccaa aggatgcttt tgaaactcgg ccaggactta    600
```

```
aatgaggaag aagctgctca ggtgcatgga gtcaaggacc cggcgccagc atcaacccag    660
agcgtgcttg ccgaatggga cagattctgc agacccctca ccagtccaca aagatgggca    720
gaatgaggcc gacagtgcac cagaagacct ccactctgtg gggaccagca ggctgcttct    780
attcacatca ctgatggtga taaccccact gctgttcgcc acggttgttc cctctttcag    840
gccaaagcca gagattcaac ttagaccccg agtcagcccc atctccaccc agcactcagc    900
agtttatgat gccgcggagt tcttcacgct gcagctgtgg agatggcaag gagccacaga    960
ccatcaccca gctcaccaag cacatccaga gcctcaagcg gaaaattcgg aaatttgaag   1020
aaaaatttga acaagaaaag aaataccggc cttcacatgg tgacaagact tctaatcctg   1080
aagtcctgaa atggatgaat gatttggcta aaggtcgtaa acagctcaaa gaactaaagc   1140
taaagctgtc agaagaacaa gggagtgctc ccaaaggtcc acctagaaac ctgttgtgtg   1200
agcaacccac agtccccaga gaaagtggga aaccggaagc tgcgggcccg gagccaagct   1260
cctctggaga agagactcca gatgctgcct tgacatgcct gaaggagaga agagagcaac   1320
ttcctcccca ggaggattct aaggtaacta agcaagacaa gaacctcata aagccgcttt   1380
atgaccgata cagaattatc aagcaaatct tgtcaacacc ttcccttatt ccaacaattc   1440
aggaggaaga ggactctgat gaagaccgtc cacaggaag ccaacaacct tctttggcag   1500
atccagcatc tcaccttcct gttggtgacc acctcaccta ctctaatgag actgagcctg   1560
ttagggccct tttaccagat gaaaagaaag aagtaaaacc accagctctc tccatgtcta   1620
atttacatga ggctaccatg cctgtacttc ttgaccatct ccgagaaact agggctgaca   1680
agaagagact gcggaaagcc ttaagagaat ttgaagaaca gttttttaaa caaacaggaa   1740
gaagtccaca aaaggaagat aggataccaa tggcagatga gtattatgaa tataagcaca   1800
taaaggccaa actgagactt ttggcccccc cagccggatc atatttcccc cntgnnnnnn   1860
nnnnnnnnnc ggnaaatgtt atgatcactt tcacccatga tataaagtaa agtttatttt   1920
cctctgcaaa aaaaaaaa                                                  1938
```

<210> 6494
<211> 4192
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (217)...(2605)
<223> similar to gi31478 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6494
```
gcggggaagc agcagcggcc aggatgaatc ccaggtgctc tggagctgga tggtgaaggt     60
cggcactctt caccctcccg agccctgccc gtctcggccc catgccccca ccagtcagcc    120
ccgggccaca ggcagtgagc aggcacctgg gagccgaggc cctatgacca ggccaaggag    180
acgggcgctc cagggtccca gccacctgtc cccccatgg agctgaggcc ctggttgcta    240
tgggtggtag cagcaacagg aaccttggtc ctgctagcag ctgatgctca gggccagaag    300
gtcttcacca acacgtgggc tgtgcgcatc cctggaggcc cagcggtggc aacagtgtg    360
gcacggaagc atgggttcct caacctgggc cagatcttcg gggactatta ccacttctgg    420
catcgaggag tgacgaagcg gtccctgtcg cctcaccgcc cgcggcacag ccggctgcag    480
agggagcctc aagtacagtg gctggaacag caggtggcaa agcgacggac taaacgggac    540
gtgtaccagg agcccacaga ccccaagttt cctcagcagt ggtaccttgt ctggtgtcac    600
tcagccggga cctgatggtg aaggcggcct gggcgcaggg ctacacaggg cacggcattg    660
tggtctccat tctggacgat ggcatcgaga agaaccaccc ggacttggca ggcaattatg    720
atcctggggc cagttttgat gtcaatgacc aggaccctga cccccagcct cggtacacac    780
agatgaatga caacaggcac ggcacacggt gtgcggggga agtggctgcg gtggccaaca    840
```

5131

```
acggtgtctg tggtgtaggt gtggcctaca acgcccgcat tggaggggtg cgcatgctgg      900
atggcgaggt gacagatgca gtggaggcac gctcgctggg cctgaacccc aaccacatcc      960
acatctacag tgccagctgg ggccccgagg atgacggcaa gacagtggat gggccagccc     1020
gcctcgccga ggaggccttc ttccgtgggg ttagccaggg ccgaggggggg ctgggctcca     1080
tctttgtctg ggcctcgggg aacggggggcc gggaacatga cagctgcaac tgcgacggct     1140
acaccaacag tatctacacg ctgtccatca gcagcgccac gcagtttggc aacgtgccgt     1200
ggtacagcga ggcctgctcg tccacactgg ccacgaccta cagcagtggc aaccagaatg     1260
agaagcagat cgtgacgact gacttgcggc agaagtgcac ggagtctcac acgggcacct     1320
cagcctctgc ccccttagca gccggcatca ttgctctcac cctggaggcc aataagaacc     1380
tcacatggcg ggacatgcaa cacctggtgg tacagacctc gaagccagcc cacctcaatg     1440
ccaacgactg ggccaccaat ggtgtgggcc ggaaagtgag ccactcatat ggctacgggc     1500
ttttggacgc aggcgccatg gtggccctgg cccagaattg gaccacagtg gcccccagc      1560
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tcttgtaatt taaacaggcc cagcattgct ggttctattt aatggacatg agataatgtt     4140
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<210> 6495
<211> 2026
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (87)...(688)
<223> similar to gi5410276 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


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cgtccgcttc tggtcatgag aggagacaga ggcctgaagc aaagacatct gggtcagaga     180
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cttgccctca ttctggagat gttcatatcc agataaactc catacctaaa gaatgtgcag     360
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<210> 6496
<211> 2401
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (210)...(1774)
<223> similar to gi5410230 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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gcgacaccag acggagcctc cggagttcct ccgcccccac ctcgccgggt cctggagccg   180
cagtcctccc agctgccctc ctcgtggcca tggagtgtcc acacctgagc tccagcgtct   240
gcattgctcc ggactcagcc aagttcccca acggctcccc gtcgtcctgg tgctgcagcg   300
tgtgccggtc caacaaaagc ccttgggtct gtttgacttg ttcaagtgtc cactgtggaa   360
ggtatgtgaa tggccatgca aaaaaacatt atgaagatgc acaagtacct ttaaccaacc   420
ataagaaatc agaaaagcaa gataaagttc agcacacagt atgtatggat tgcagtagct   480
acagtacata ctgttatcgc tgtgatgatt ttgtggttaa tgacaccaag ctgggactgg   540
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ataagaaaag aaaacttttg gaaaactcaa cactaaacag caagttatta aaagtaaatg   660
gaagcaccac tgccatttgt gccacaggcc ttcggaattt ggggaacaca tgtttcatga   720
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5134

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<211> 6976
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (374)...(2644)
<223> similar to gi3413860 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters


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5136

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tgagcgggtt ccctggatag aaggagtctt ccatccccac tgcccttggg cctcttcagc   5700
atagtcctgt gccagggccc tgtcctcact atcagtcagt tcagtttcag tatttgcttt   5760
cacgtgagtg gcggactctt ctgaagcagc cagaactctc aaaggcagcg catggagttg   5820
ccttgcgaga tttccaagga aggaggaaag attaacaggc ggagcctggc acacccaagc   5880
ctttgaggtg gtcagagtgc caccttcagc cccttgggaa gggacagcgg tgggtctggg   5940
agtggcctca ccctggattc agcctaggaa tctcttcacc ctcagctgtc cagccctgct   6000
gcctgtctgg ggatgtgtgg cctgggcaga gggcagttta aagcacaaaa ccacatgggg   6060
aaaacacaag gttgcgggga ctttctcatg tgcctgatgt ggtggaggga gacaccagca   6120
ggtggctgca gtgacgttag ggaacataac acttctttgc cctgctagct ctcagctctg   6180
gggggcatcc cccgatgtgg tctgggctgg gagcaggcat atcccctggt tgttgcctgt   6240
gcctggtctg ttcaccatcg tgtttgtgtg ggcagagcct gccctgcagg agcagtgact   6300
ttcttcccac tgtgtgtccc ggacctgtgg tatgtgtccc tttgccatcc caaacaggca   6360
actgcttgct gctctccttg cttggcatag cctcctggtc agtggccaat gccccacagg   6420
ccttcctggg cctggccctc ctctcctgac tcccagatcc ttccctgccc tcttgtgtgc   6480
aaggacagat tttgcaggga aagttctgtt tcttctttga tacctttgtt ctgtcacctg   6540
ccccatcccc agcactccat ggatcttgaa gcccctatca cactcctagt tccagtccct   6600
gtgaaaccca tgtccctgaa gggccctgcc agggaaagta ggaaaataga aactccctcc   6660
cacaaagagc ccgaggatcc agagaagacc cctgagatga aattcagggc cctgccctgc   6720
cccacccaac tcttttccta gcaatccatg tccctgcccc aggctgcagg ccttgcatta   6780
ggctcctgct gtcctgccat gtatgtgact agtcatcaag gtgtatatat gttttgtacc   6840
tctgccgatg ggctgtacat agtgtatgaa agttatttaa gaccccatgt tgtacatttc   6900
tgttcctaga ttggatgtgt gtgttctaag aagttgtcat aaataaaacc tgaatgcccc   6960
aatgtcaaaa aaaaaa                                                     6976
```

<210> 6498
<211> 3010
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (205)...(2559)
<223> similar to gi38420 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6498
```
cgccgggctc gggcggagag aggagctgct acgccacagc ccagcggcgg ccattcgcgg     60
aaaaagaggc agagcctgtg ccagctacag cctcctccga gccaccgcgg gcgggcggga    120
ccggcctctc ctcccgcctc gcccccaccc ccacccacct ctatcccagt gtctccgtct    180
gagggtttgt cctgttaatg cgggatgagc gatcacaaga aggaggagga ggaggaggcg    240
gcagcggcag cggcgatggc tacagaagga gggaaaacct ctgagccaga gaataacaat    300
aaaaaaccca aaacctcagg ctcccaggac tctcagccct ctcctctggc tttactggca    360
gctacttgca gcaaaatagg gactcctggt gaaaatcaag caactggaca acaacaaatt    420
attatagatc caagtcaagg attggtgcaa cttcaaaatc aaccacaaca gctagaactg    480
gtaacaacgc aacttgctgg aaacgcttgg caacttgttg cctccactcc tcctgcttca    540
aaagagaata acgtttctca accagcctct agttcgtcta gttcttccag cagtaataac    600
gggagtgcat ctcctacaaa aactaaatca ggtaattctt ccacccctgg tcaatttcaa    660
gtcatacaag tacaaaatca caagtggtag tgtacagtac caagtaattc cacaacttca    720
gacagtggaa ggtcaacaaa ttcaaatcaa tccaactagt agttcatctc tacaggattt    780
gcagggtcaa attcagctca tttctgcagg taataatcaa gctatactca cagctgctaa    840
```

5137

```
caggacagct tctgggaata ttcttgctca aaacctggca aatcagacag ttccggtcca    900
aattagacct ggtgtttcaa taccactgca gttacagact cttcctggta ctcaggctca    960
agttgtaaca accctaccaa ttaacattgg aggagtgact ctagctttgc cagtgataaa   1020
caacgtggct gccggaggag ggactgggca ggttggccag cctgctgcta ctgctgatag   1080
tgggacttcc aatgggaatc aattagtttc cacacccacc aacaccacta cttctgccag   1140
tactatgcca gaatctccct cctcctccac tacctgcaca accactgctt caacgtcttt   1200
gacaagcagt gacacattag tgagctcagc agatactggc cagtatgcaa gcacatcagc   1260
cagtagttct gaacgcacca ttgaagaatc tcaaacacct gctgctactg agtctgaagc   1320
ccagagctcc agtcagcttc acgctaatgg aatgcagaat cagcaggatc aatcaaattc   1380
tcttcagcag gtgcaaattg taggccaacc tatcttacag cagatccaga tccaacagcc   1440
tcagcaacag atcattcagg ctattccacc acagtcgttt caactccagt cagggcagac   1500
gattcagacc atccagcagc agcctttaca gaatgttcaa cttcaagcag taaatccgac   1560
tcaggtgctt atcagggctc caactttaac accttcaggg caaatcagtt ggcaaactgt   1620
acaggttcag aatattcaga gtctttcaaa tttgcaagtt cagaatgctg ggttatccca   1680
acaattaacc atcaccccag tgtcttcaag tggtggcaca actcttgctc agattgctcc   1740
tgtggctgtt gctggtgccc caataacttt gaatactgcc cagcttgcat cagtgcctaa   1800
ccttcagaca gtgagcgttg ccaacctggg tgctgcaggt gttcaagtgc agggagttcc   1860
cgttacaatc actagtgttg caggtcagca gcaaggacaa gatggagtaa aagtccagca   1920
agctactata gctcctgtaa ctgtagcagt tggaggaatt gctaatgcca cgataggtgc   1980
tgttagtcct gaccaactca cacaagtgca tttgcagcaa ggccagcaga cttctgatca   2040
agaggtacaa cctggcaaga ggcttcgaag agttgcctgt tcctgtccta attgtaggga   2100
aggagaagga agaggcagta atgaaccagg aaaaaagaag cagcatatct gtcatattga   2160
aggatgtggt aaagtttatg gcaaaacatc tcatttacga gcacatcttc gctggcatac   2220
tggagaaaga cctttatat gcaactggat gttttgtggc aaaagattca cacggagtga   2280
tgagctccag agacatagaa gaacccatac aggtgaaaag agatttgaat gcccggaatg   2340
ttctaaaagg tttatgcgga gtgatcatct ctccaaacat gtcaaaacgc accagaataa   2400
aaaaggtggt gggacagctc ttgccattgt tacctcggga gaactggact catctgttac   2460
agaggtgctt ggctccccaa gaattgtcac agttgcagcc atttctcaag attcgaatcc   2520
agcaactccc aatgtttcaa ccaacatgga agaattctga aaagttattt ataacagaga   2580
cctctagtgc tgcacttgtt tacacacctt tgaaaatctg gaaatgggct ggtcaagtgg   2640
attacagagt aggaaattat gttttcattc ttggcttctt taagtattcc agggtttggg   2700
gtcaacacgt gaagtgttga attttaaaaa atacaaaaag caaactgatg tactggaaac   2760
agaaaagtat ttcctccata ctataagttg tagttgtttg gaaatatatc acataacctt   2820
tatacagaat cttcccatct cttaatatca tgtgttaaca tgtttaaaaa gaccttagta   2880
gtttgcaggc tggaccttaa ttggacttat tttctttgaa agtactttgt tataaattca   2940
gtcagtaata atttacgtgt attctttttc tctatagcac agaaaacaga tagttaactg   3000
atgatagcgc                                                          3010
```


<210> 6499
<211> 1953
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (390)...(1728)
<223> similar to gi3170538 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6499

```
tttcgtccct cagcggcgct tcctcgtagc gagcctagtg gcgggtgttt gcattgaaac    60
gtgagcgcga cccgacctta aagagtgggg agcaaaggga ggacagagcc ctttaaaacg   120
aggcgggtgg tgcctgcccc tttaagggcg gggcgtccgg acgactgtat ctgagcccca   180
gactgccccg agtttctgtc gcaggctgcg aggaaaggcc cctaggctgg gtctgggtgc   240
ttggcggcgg cggcttcctc cccgctcgtc ctccccgggc ccagaggcac ctcggcttca   300
gtcatgctga gcagagtatg gaagcacctg actacgaagt gctatccgtg cgagaacagc   360
tattccacga gaggatccgc gagtgtatta tatcaacact tctgtttgca acactgtaca   420
tcctctgcca catcttcctg acccgcttca agaagcctgc tgagttcacc acagtggatg   480
atgaagatgc caccgtcaac aagattgcgc tcgagctgtg caccttacc ctggcaattg   540
ccctgggtgc tgtcctgctc ctgcccttct ccatcatcag caatgaggtg ctgctctccc   600
tgcctcggaa ctactacatc cagtggctca acggctccct catccatggc ctctggaacc   660
ttgttttct cttctccaac ctgtccctca tcttcctcat gcccttgca tatttcttca   720
ctgagtctga gggctttgct ggctccagaa agggtgtcct gggccgggtc tatgagacag   780
tggtgatgtt gatgctcctc act.ctgctgg tgctaggtat ggtgtgggtg gcatcagcca   840
ttgtggacaa gaacaaggcc aacagagagt cactctatga cttttgggag tactatctcc   900
cctacctcta ctcatgcatc tccttccttg gggttctgct gctcctggtg tgtactccac   960
tgggtctcgc ccgcatgttc tccgtcactg ggaagctgct agtcaagccc cggctgctgg  1020
aagacctgga ggagcagctg tactgctcag cctttgagga ggcagccctg acccgcagga  1080
tctgtaatcc tacttcctgc tggctgcctt tagacatgga gctgctacac agacaggtcc  1140
tggctctgca gacacagagg gtcctgctgg agaagaggcg gaaggcttca gcctggcaac  1200
ggaacctggg ctaccccctg gctatgctgt gcttgctggt gctgacgggc ctgtctgtgc  1260
tcattgtggc catccacatc ctggagctgc tcatcgatga ggctgccatg ccccgaggca  1320
tgcagggtac ctccttaggc caggtctcct tctccaagct gggctccttt ggtgccgtca  1380
ttcaggttgt actcatcttt tacctaatgg tgtcctcagt tgtgggcttc tatagctctc  1440
cactcttccg gagcctgcgg cccagatggc acgacactgc catgacgcag ataattggga  1500
actgtgtctg tctcctggtc ctaagctcag cacttcctgt cttctctcga accctggggc  1560
tcactcgctt tgacctgctg ggtgactttg gacgcttcaa ctggctgggc aatttctaca  1620
ttgtgttcct ctacaacgca gcctttgcag gcctcaccac actctgtctg gtgaagacct  1680
tcactgcagc tgtgcgggca gagctgatcc gggccttgg tgagagggag tgagggtgca  1740
ggctagtggg gggtggtaat catctaggac actctggaac atggatcacc ccagcagggg  1800
agagggtttg cttcctgctt tgtgggtaac gtacctcatc cacacattct gtggcttggc  1860
tgcctggtcc ctaacggact ggacctttga cttgcttttg actgcccatc tcctcttctc  1920
cagggctgga cagactgccg ctgcccgtct ccg                               1953
```

<210> 6500
<211> 5259
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (5202)...(2146)
<223> similar to gi3327108 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6500
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tttttttttt ttactaatat agagatttta tttaaactgt attgaatttt tacagcacat    60
tgcatgtttg tcacaacgca actgcacagt ttggattttt ggccacatca tgtcacttac   120
acccacaaca gctttgaaag gagtatttga tgaacacatc tgagccaaaa gcccagagtc   180
tctctccaag gccatgcagt ttgttcactg atgggacagt ccctcaaaac agcccacgct   240
```

5139

```
aagtagacag atacagtctc cccaaatgtt accaatctta ctccccttga aaacaggcag      300
agtgaagtgc aatgaaagac aagttaatta aaaagccact cacaactggc agtaaatttt      360
aatgattgat aaaatggctt taaaataatt ttatggtatc agaaacaagg aacagcttgt      420
tactttttca atgatctcag gaattttgca gacacaaaat ctccattatt cagctccatt      480
taaatgaaaa aaaaagttcc gctaggctga cctaaatatg ccaaaacttt ttaggttaca      540
tctatggcaa gtacaaaaga accacagatg cgtctctgta ggactgaaaa ggtcaggaca      600
aataatgatt cttgttctaa atgcagatcc tagttatttt ggaatgaaat gctgttttct      660
agaaagcaac atgaaagtag cagtaagaaa gatgactacc atcatttcaa aacaggataa      720
gcctaaatat aatttaccat ttatatgtca acaaattaag gaaaactgta taaagtccta      780
gtggtttcat tataggccaa ggagactgta tctgtcccac ccacagtaca tggctatatc      840
actgtatctt ttggttaagt gccactggta catattaaga tgaaaaaaaa caaaaacaaa      900
aacaaaaaaa caaaataaaa ttttttaaaa accaacaacg tttggtccaa atggacacat      960
gttctttccc aattttggta tcaaggcttt attctcttct gtttgggttc cattgttaag     1020
tgcacagaaa tagacagcag catttgtact gaaaccctca cataccaaac agcatatgct     1080
aggaggtaaa aaccaaacgc taaattctac cctcaaggtg tcaagtgttc aggataagaa     1140
gcaatgtgac ccagaggagg catcagccaa gggaaagaca acatggggga aatgggcaat     1200
ggaacaacaa caacgaaaac ctttgtttta ttttcatgcc aggagaggat caaggtgtag     1260
ctcctgtgtt agcaccagga caactaggaa aagtcaggtg caaagagtag ggcacaatca     1320
gcagatattt cacaaggata attttttgctt ttcccttctc attcttcaca gtgcataact     1380
caagagctgc cactgtgtaa cagagacgac tgccttcaca gctcaaaata actcaatgtt     1440
tgccaggacc gaacatcagc agagttttcc tctgctccca aaaatgtctc actccctaga     1500
actgttcccc taaactgaat attcaccaat gctggctgat gagccaactg aaaaatacat     1560
tgaaacctcc acttgctgag ccagtcttca aaccaaactc cacagaaaga cagtactaat     1620
gcaactagaa ggagtgcctc taaaggctga gccttcatgc agacacagag cacagaggta     1680
caggatatag ttcatctcaa ataggacagg aattcctacc ttgtatacta taatctgctt     1740
ttgtcaaggt ggaggagaga tgggtctggt tatcacttgg agtttggtta tacatatgcc     1800
tttctattgc tgtttggggc actttgcacc aggcaacatc tacgcaatca tcatcttgtg     1860
acctccagga gaaagaggct ggagtcacca actcaacatt aagcttccag accctgggtc     1920
tgggttagga ccattacccc aaggtgaggg tatcaccagt agaggacctc ctgctaaatt     1980
gcaattcctc tgctccagtt tcatgatacc aaggaggatt tctcaagatg gtatctctga     2040
gctctgtgat ttcatgagcc acaccaagga accttccaaa ctacaactga agaagatcct     2100
cccttcaaac ctgctaaaat tggacaggtt tctccccggc attcaactgg aagctgtagc     2160
aatgggtttc ttcagctgtt ggctcatgag ttccctggca cgagagactt gaatgtgttc     2220
gtaacatgag ttacagacga gaactgggtc atagagttgc tgatcaggaa tgggcagctt     2280
caggtggcag catccagcac aaaatacatt cccacaattt ctgcaatggt gtcttcgttt     2340
ggccaaccag aattcacagt cacagttata gcagtgtgat gccatatggt ctggaaccca     2400
gcgagtcacc tcagtctctt tcttatcaac aggttcccag cttgcttctg aaaggcagtc     2460
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aaaatcatcc tcatagtcca tgggggggctc tgctggaggg gcacagcagt gacggatgtc     2580
cagcctcatc tgaagctcac gcacctgtcg acgtagctgc tccacctctt gtttgtaccc     2640
tgcttcgatt tgccgtaacc tatgctggat cacatccgtg ggaaagggga gtccatcatc     2700
atccaaatac agaggaggca ctggagaagg gcagttcagt ggaacgggct ttgtgctaga     2760
gacttgcttt ggatgactgg acaaccacat ctggttcttt cctcctgggc cagtacaatg     2820
tccattggaa tgactagaac agacaggtga cttcacacct tctctctgag cccactggcc     2880
cccaaagcag ggccctgtgg cccgcatctg cttactgttt ggcctcttgc tacaacagcc     2940
ataggaaagc agccgccgag gggtggcctc cccacttggg aatgaagtca ccatcccttg     3000
gaagctgtcc cagttggacc ctagaaaaga gaactcactg atctggctct gagaaattgg     3060
cttccggacc aattccaatg gcatttttcccc aaagcgagga ttttccaata actgcccatt     3120
cctattattt cctcttttac caatgtcttc ctccccatgg gtcagatccg gcacagaact     3180
cagttgttcc tggtgggaga tacttgccac agaccctgag ggatcttggt tgaggaaagt     3240
cagtgcttgg gtctagagga gtttggcagg cagcactcgg tgggttgcaa acggtgctga     3300
ggctgtgatc aagaacacac ttggagggca cacctagcat ggagtctggc tgggcctgtt     3360
ggggcgtacc tgtaggagag ttctgggaag actcaggaaa attacaaact ccatcacact     3420
tgttagaaat gaccttggag agtgcactga cagcttctgt ttcaggacaa tgttcaggtg     3480
gctcccctat gccatctaaa gtcctaccca gctcatcctg ggcagaaggg tctggagctg     3540
gtcccttagt ctcttctagg actttgatct caggatcaga ggtgttgctc ttcatttccc     3600
gaggcactgc ggtattaagc agtttgtaac ttggagaaca gcttttgtga ctcttgaaag     3660
```

5140

```
gtttattgct caagtagtct ttctggctgc tgggcagagg aggaggaaga cccacttctc   3720
ctacagtttg ctgaggccct cctaccccag agtccacaaa gcttgtctct gatccctcag   3780
gattgctgtg ccagggctcc aggcctaccc tgacctcctg acagtggtta ttcaggttag   3840
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ctggggaaag gtaaagatcc atgttttctt ccccaagtgt gcatggagat gatgctggca   4020
gataaacagc tgtccagagg tgcagggccc ggacatgaca aacaggatgc aggaccatgt   4080
ctgagctggg tgtgtagagg aagttatgaa agttttttatt gccagctcga aggagcgccc   4140
acacagagca ggtcccgctt tgtagatgtt gcgcttctct cgctacacag gggttgttgg   4200
ccaggaaggt gccgtagagg caggagtatg tgtgttgcac cagtttttacc aggaatgctt   4260
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ggaggaacac agggcattgt tcgtttttggt cctccacatt ctcttggtgg ccacagcgat   4380
ctccaaactt gtgcccaaaa tccagccagt cagactccac taacacttgg aagccctcca   4440
acgtcctgta atatgggtcc agtaatattt tggccagggc tacgatctgc ggtgtgcggt   4500
cccagccatc tgagcagtgt accagcacag gccggccttc ccggtctact gtattagcca   4560
ccagcacagc tgctttttagc atcaccgaca agtgctgcag ccatttggta ctctccagtg   4620
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tgttccggat ggcatggatg ttggccattc ccatgaacac gacctcacag ttgggatagt   4740
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gcgcatccag gatcagcagc tttttgaggag ctgctgtgct ctccactcca gagcacgcag   4860
tcagagaaga atcaaagtca gcatcacacg cctcgctggt atcattattc ccggtgctga   4920
gggagccccc agtggccctt gtccccgggt ccagggcaca ggctttagca atggacgtga   4980
ccaggtactc atcatcagca ttgcgccagc cccaccagct gatctctggc tggctgcagc   5040
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agcggaagga agccacgttc tccagctctt tgtcagtgat ccacacagga accagcagct   5160
tctgggggta actggggcac aatttgtagt tgctgttgat gtgtgagact ctccagacgt   5220
tctgcaggtc aaagcccatc cttgcaagct ccgcctcct                           5259
```

<210> 6501
<211> 3686
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (362)...(3689)
<223> similar to gi2224665 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6501
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tgggggggggg ggggtcttgc tacattgccc aggctcaaac ttctgggctc aaatgatcct     60
cctgcttctg cctcagcttc tgcctcggcc tccggagtag ctgggactac aggcctgaaa    120
tactgtttct ttaaggaagg gcatgttacc tataatacca aaccacaaaa ggatagctgc    180
ggttttgggc gaggagagct cagagagttt cttgcatatg gccctgtgat ggcggccatg    240
gccctgcata gacacgagct ggaatctgca ggtggcagcc aggacgctgc gtgtgtcgag    300
tgcacagtgt ggcttggtgc caaccatggc gagggtggag agccccgtgc ctgcagcgcg    360
cgcttccctc actgggtcct gcgtccttgg gcaggcgatg ccctgcggg gaggggctgg     420
tccatccccg gccagccacg gacccacgca tggacccagc gacccacgga cctgcttacc    480
tgggcgcggc gcgggtggca tgcggccaca cggaaggggc gcgctgggct gctgcggcct    540
ctgcagcttc tacacctgcc acggggcggc cggagatgaa atcatgcacc aggacatcgt    600
```

5141

```
cccgctctgt gctgccgaca tccaggacca gctaaagaag cgctttgctt acctgtccgg    660
tgggcggggg caggacggaa gcccggttat caccttccct gactacccgg ccttcagcga    720
gattccggac aaggagttcc agaatgtcat gacctacctc accagcatcc ccagcctgca    780
ggacgctggc atcggattca tcctggtgat agaccggcga cgggacaaat ggacctccgt    840
gaaggcgtcc gtcctgcgca tcgcagcatc tttcccggca aacctgcagc tcgtcctcgt    900
gcttcgcccg acgggttttt tccaaaggac tctctccgac atcgctttca aattcaatag    960
agatgacttt aagatgaagg tgccggtcat aatgctgagc tccgtaccag acttacacgg   1020
ttacatcgat aagtcgcagc tgaccgagga cctgggtggg accctggact actgccactc   1080
ccggtggctg tgccagcgca cggccatcga aagtttcgcc ctcatggtga agcagacggc   1140
tcagatgctg cagtccttcg ggaccgagct ggctgaaaca gagctgccca atgacgtcca   1200
gtcgacacag ctcagtgctg tgtgcgcaca cagagaagaa ggacaaggcg aaggaggatt   1260
tgaggctggc actgaaagag gggcacagtg tcctggagag cctcagggag ctgcaggctg   1320
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tcctggccca gctgaacgaa accgaggctg ccttcgatga gttctgggca aagcatcagc   1440
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ccatcttgga cgcagcgtcc cagaagatag caaccttcac agacatcggc aacagcctgg   1560
cgcatgtgga gcacctgctg agggacctgg ccaactttca ggagaaatca ggcgtgttcg   1620
tggagagggc ccgagccctg tctttgaccg caagcagctt cattgggaac aagcactacg   1680
cggtagactc catccgccca aagtgccagg agctccggca cctctgtgac cagttctctg   1740
cggagatcgc aaggaggagg gggctgctca gcaagtccct ggagctgcac cgccgcctgg   1800
agacgtccat gaagtggtgt gatgaaggga tttacctgct ggcctcacaa cctgtggaca   1860
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ccggtgcgga aaataagatc caggagctca acgcgattta caaggaatac gaatccatcc   1980
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tgatggctca cctcctgtca acaggccttc acaacaagaa ggatgttttg tttggaaaca   2460
tggaggaaat ctatcacttc cacaacagga tattcctcag ggagctggaa aactacactg   2520
actgcccaga actggttgga agatgctttc tggagaggat ggaagatttc cagatctatg   2580
agaagtactg tcagaacaag ccccgctctg agagcctgtg gagacagtgc tccgactgcc   2640
cgttttttcca ggaatgccag agaaagctgg accacaagct gagcctggac tcctacctgc   2700
tgaagccagt gcagaggatc accaagtacc agctgctgct caaggaaatg ctgaaataca   2760
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agaagctgga agaaggaaa acagaccccc taagcctgga gggatacgtc agctcagcgc   3420
cactgacaaa gcccccgaa aagggcaaag gttggagcaa aacgtccac tcactggagg    3480
cacctgagga cgacggggc tggtcaagtg cagaggagca gattaactcg tccgacgcag   3540
aggaggacgg cggggttggggc cccaagaagc tggttccagg taaatacacg gtcgtggcgg   3600
accacgagaa gggaggcccc gatgcgctgc gcgtgaggag cggggacgtg gtggagctgg   3660
tgcaggaggg cgacgagggc ctctgg                                        3686
```

<210> 6502
<211> 899
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (11)...(634)
<223> similar to gi1045059 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6502
agacctgagc atggcggcca ccaggtgcct gcgctggggc ctgagccgag ccggagtctg   60
gctgctccca ccgcccgcac ggtgcccacg ccgggcgctg cacaagcaga aagacggcac   120
tgagttcaag agcatctaca gcctggacaa gctctacccc gaatctcagg gctcggacac   180
cgcctggagg gtcccgaatg gtgcaaagca agccgacagt gacatccctc tagatcgctt   240
gacaatatct tattgtcgga gtagtggtcc tgggggggcag aatgtgaaca aagtgaattc   300
caaggcagaa gtcaggttcc atttggcaac tgccgagtgg atcgcggagc ccgtgcggca   360
gaagatagcc atcacgcata aaaacaagat caacaggtta ggagagttga tcctcacctc   420
tgagagcagc cgctatcagt tccggaatct ggcagattgc ctgccagaaa attcgagaca   480
tgatcactga gcccagccag acaccgaagg agccaacaaa agaagatgtt aaacttcata   540
gaatccatgg atagaaaaca tgaatcggga aaggctgaga caaaagagaa ttcattctgc   600
tgtaaagaca agcaggaggg tcgacatgga ctgaaatcac cctctgcagc tgggagggct   660
cttctgggcg tccgggcagc tgcagctgag aggactttca caccataagg agatttctgt   720
ttttctttt ggctgttaat gcttgtctat aacattggag ccatcacaag aatgttcatt   780
tggaatgaag gctgcaggca ctggttgcag acgtctttat aggcagtcac catgttgtca   840
aaccttaata atgcacctca tgtattagtc acaataaaaa tcagaactca aaaaaaaaa   899

<210> 6503
<211> 5148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(5149)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (642)...(5148)
<223> similar to gi3880812 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6503
ggcggtagtg cgtcggctgc tgcccgggtc tggcagaact cgggtttttt gggctgagac   60
agtggcagct gcggccccga ccccaagtgc ggggacctcc ggcgaataaa ggtcggcctg   120

5143

```
cgggtaggcc ggtagggcct gcggtccggc ctgcgggaga actgggtcgt cagtcctccg    180
agtggtgggg ctggggactt tgagggagtt ggctctaggg cacagtccct gcctggccag    240
gtcggaggaa caagtgctgg gatctggcgt gtgtgctcca ggggctcttt ccgcggccct    300
ttccacctct tttcactttg gggacggtag gcctttataa acggactaat gctgggtgat    360
ttgttcctgt ggttgttgat gccgaggaaa gactctgggc cccaggactc acctaaactg    420
gagttcgaat actgttcgct cgctgtgtga ccttggaaaa aaaaacaagc ttttctgaag    480
tgagaagctg ttctcagcca cgagtcctgt gcaagatcac taatgattac ctggcatttc    540
tgcgacacag gcaggtcctc agggtttgtg caagtttgca aacatgttca ccctgtctca    600
gacctcgaga gcatggttca tcgaatagag cccgtcaggc acgaaaagaa aggcttgtgc    660
agaaggaacg ggagcgggca gctgttgtga tccaggccca tgtccggaag ttttnctact    720
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accctgagtc cactaaaaga agtgcacttt gtattttcaa gattgccagg aaactgctgt    840
tcctattcag aatcaaagag gataatgaga gatttgagaa gttgtgtcgc agcatcctga    900
gcagcatgga tgctgagaat gagcctaagg tgtggtatgt gtccctggct tgttctaagg    960
acctcaccct cctttggatt caacagatca agaacatttt gtggtactgc tgtgattttc   1020
tcaagcagct caagcctgaa atcctgcagg actcccgact catcaccctg tacctcacga   1080
tgcttgtcac cttcacagac acttcaacgt ggaaaattct tcggggaaaa ggtgaaagtc   1140
ttcgaccagc gatgaaccac atttgtgcaa atataatggg acatctcaac cagcatggat   1200
tttattctgt gctgcagata ttgttaaccc gtggcctggc aagaccccgt ccttgtctat   1260
ccaaaggcac tttaacagca gctttttctc tagcgttacg ccctgtgatt gctgcacagt   1320
tctcagacaa tctgattcgg ccgttcctca tccacatcat gtgtgtgcct gctctggtga   1380
ctcatctcag cacagtgacc cctgagcgcc tcactgtttt agaatcccat gacatgcttc   1440
gtaaattcat catattttta agagaccaag atcgatgccg tgatgtatgt gaaagtttag   1500
aaggatgcca tacgctttgt ctaatgggca acctcctaca cttgggctcc ctcagcccca   1560
gagtgttaga ggaggagaca gatgggttcg tgagtttgct cacccagacg ctgtgctact   1620
gtcggaagta tgtgtctcag aagaagtcca acctgaccca ctggcatcct gtccttggct   1680
ggttctccca atctgtggat tatggcctta acgagtcaat gcacttgatc accaaacagc   1740
tgcagttctt gtggggggtg cctctgatcc ggatcttctt ctgtgacatc ctgagcaaga   1800
agctactgga gagccaggag ccagcccacg cacagccagc atccctcag aatgtgctcc   1860
cagtgaagag tctcctaaag cgtgctttc aaaagtcggc atcagtccgg aatattctca   1920
ggcctgtcgg gggtaaacgg gtcgactctg cagaagtcca gaaggtttgc aacatctgtg   1980
tcctctacca gacctcgctg acaactctca cacagattcg gctgcagata ctcacaggtc   2040
tcacttacct tgatgacctg cttcccaaac tgtgggcatt tatctgtgag ctcgggcccc   2100
acggagggtt aaagctcttc ttggaatgcc tgaacaatga cactgaagag tccaagcaac   2160
tcttggccat gctgatgctg ttctgtgact gttcgcggca cctcatcaca tccttgatg   2220
acattgaagt ttatgaagaa cagatttcat tcaaactgga agagctggtc actatctcct   2280
ctttcctgaa ttcttttgtg tttaagatga tctgggatgg aattgtagag aacgccaagg   2340
gtgagacctt ggagctgttc cagtctgtcc acgggtggct tatggtgctg tacgagcggg   2400
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tgctcttcca agaactcgac agggacagaa aacgggcaca gttgatcctg cagtacatcc   2520
cacatgtcat ccctcacaaa aacagagttc tactgtttcg aaccatggtt accaaggaga   2580
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gacggctacg agcagcttag gcagctctcc cagcacgcca tgaaggggt catcccgtgt   2820
gaagtttgtc aatgacctcg gggtggacga agcagggatt gatcaagacg gtgttttaa   2880
ggagttcttg ggaagagatc atcaagagag tttttgaccc agcacttcaa tctgttcaag   2940
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acctgcagct cttccgagtt tgtggggaag atgctgggga aggctgtgta tgagggaatt   3060
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caaataaaaa accaaacagc tgccctcatt agcggattcc gttccattat caaacccgag   3420
tggatccgaa tgttctcaac tcctgaactg cagcgtctca tctctggcga caatgctgag   3480
attgatctgg aagatttaaa gaagcacaca gtctactacg gtggtttcca tggaagtcac   3540
```

5144

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aagcctccat tctccatccg ctgcgtggag gtgtcggacg atcaggacac cggggacact     3720
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cccacctcct ccacctgctt caacctgctc aagcttgccc aaactacagc aagaagagcg     3840
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cagcatctcc aggtgatgcc caaggcacag ggctgcagaa aataaacctc cagattccac     4140
caacacgggt ccattcttcc tggtgatggc agaggggctt cttttagcta gtttgatctt     4200
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gccctcattc tttacctttg ttgtaagaac tttagctcca gggaactgag gcaaaggccc     5040
tgtttgtggt ctgtgttgac agccacccac cctctcccac ctcatgctcc tgcacctgca     5100
ccaccaaggt tgatgccgga ttcgaagcca ggaaggccca gtccctcg               5148
```


<210> 6504
<211> 4591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (80)...(1298)
<223> similar to gi3327200 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6504
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gtctgcccgg ccaagaggca aaggggaggt tacgcagcaa accatccaga agatgctgga      180
cgagaaccac cacctgatcc agtgcatcct ggagtaccag agcaagggca agacggccga      240
gtgcacgcag taccagcaga tcctgcaccg gaacctggta tacctggcca cgatcgcaga      300
ctccaaccag aacatgcagt ccctgcttcc tgccccgccc acgcagaaca tgaacctggg      360
ccctggagcc ctgactcaga gcggctccag ccagggcctg cactctcagg gcagcctgag      420
tgacgccatc agcacgggcc tgccaccctc ctccctcctg cagggccaga ttggcaacgg      480
gccgagccac gtgtccatgc agcagacggc gcctaacacg ctgcccacca cctccatgag      540
catctctggg cccggctaca gccacgcggg acccgcctcg cagggcgtcc ccatgcaggg      600
```
```

```
gcaaggcacc atcggcaact acgtgtctcg gaccaacatc aacatgcagt ccaacccagt    660
ctccatgatg cagcagcagg cggccacgtc gcactacagc tcggcgcagg gcggcagcca    720
gcactaccag ggccagtcgt ccatcgccat gatggggcag ggcagccagg ggagcagcat    780
gatggggcag cggcccatgg cgccctaccg gccctcccag caaggctctt cccagcagta    840
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cagtacggaa gctaccgagc accgcagaca gcgccgtctg cccagcagca gcggccctac   1260
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gtgacatgtt ggttacctgt tcgcccagtg ccacgtctgc atgtgaagcg tgctcatttc   1440
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gcctgtctct cgccaattcc gtttatccaa aaaggtacat gttttttgtat taaaaagtaa   1980
acagggatca gtgactgtat tccaaataaa tatgaatccc taagggccgt ggacaaattg   2040
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atggtcaaag gaaaaaaatc ccacatttca attaacaagt agcatggaca tttgatcaac   2520
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aaatgctgac agatttccaa gaactaccaa gaaaatacaa gagatatcca atgcttgata   2640
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gtttatttaa tgtgctgtcc atttttatgt aatattatgg ggaaagtgat gccagcagtt   3840
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                                    5146

```
acatccagca aattgtgaat ttgaaaaatg atggccagtt ttcagaagtg ctgacaaatt    4080
catattgggt atgcaaaagc tcatcaccca ttaaggtttg ttgttgaatc aacagtactc    4140
agcatattaa aacagtacat cagaactcat gccaacagtc tttatgatgg gattaaggtg    4200
gacaagatct cctaagatct gtgaatggga ttaaggtgga caagatctcc taagatctga    4260
aaagaaacct taatacgctc atatggttgg agtgttaagt gaacctctga ttttgtcagg    4320
gtttttctac gtgtaggcgt gaatagggg cacccccttca aaactgtaca aagaagacga    4380
ctgtttttcca tttccatttta aacatttttta gccacttcat ttctatttat tgaacaggtc    4440
aaatttgtct tgttatttgt gagtacagta catttaaaaa acatccttat cggttatttt    4500
tttttcagtc ggagtttgac gtataaaatt gtttatgctt ttggtgtaat ctctttaatt    4560
aaactggttc ttcaaaaatc aaaaaaaaaa a                                  4591
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<210> 6505
<211> 2312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (321)...(1264)
<223> similar to gi545998 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6505
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gaaaaggagg ggcgtggggc gggcgtgggg gcagttcccc agcccaggtc ctcctctcac     120
ccgggccagt tttcaaggcg ggctgtaact ggtggcattt gtcccgggac caggctggag     180
tgcaacggtg cgatctcggc tcatcacaac ctccacctct cgggttcaaa cgattctcct     240
gccttagcct cccaagtagc tgggattaca ggtccacagt tttatgtgtg agcaagatgg     300
aggctgacct gtctggcttt aacatcgatg ccccccgttg ggaccagcgc accttcctgg     360
ggagagtgaa gcacttccta aacatcacgg acccccgcac tgtctttgta tctgagcggg     420
agctggactg ggccaaggtg atggtggaga agagcaggat gggggttgtg cccccaggca     480
cccaagtgga gcagctgctg tatgccaaga agctgtatga ctcggccttc caccccgaca     540
ctggggagaa gatgaatgtc atcgggcgca tgtctttcca gcttcctggc ggcatgatca     600
tcacgggctt catgctccag ttctacagga cgatgccggc ggtgatcttc tggcagtggg     660
tgaaccagtc cttcaatgcc ttagtcaact acaccaacag gaatgcggct cccccacat     720
cagtcaggca gatggccctt tcctacttca gccacaac cactgctgtg ccacggctg     780
tgggcatgaa catgttgaca aagaaagcgc cgcccttggt gggccgctgg gtgccctttg     840
ccgctgtggc tgcggctaac tgtgtcaata tccccatgat gcgacagcag gagctcataa     900
agggaatctg cgtgaaggac aggaatgaaa atgagattgg tcattcccgg agagctgcgg     960
ccataggcat cacccaagta gttatttctc ggatcaccat gtcagctcct gggatgatct    1020
tgctgccagt catcatggaa aggcttgaga aattgcactt catgcagaaa gtcaaggtcc    1080
tgacgcccca ttgcaggtca tgctgagcgg gtgcttcctc atcttcatgg tgccagtggc    1140
gtgtgggctt ttcccacaga aatgtgaatt gccagtttcc tatctggaac cgaagctcca    1200
agacactatc aaggccaagt atggagaact tgagccttat gtctacttca ataagggtct    1260
ctaaatgccc cacttcagca aggaccagtc tattcccata ttcaccagct cctccttagc    1320
tacgtgcaca cttgtgtcct ccttcccctt tgccaacaag gcctgaaggc cagggtagat    1380
tggggggtgg acaatgaat gcctcatact tacaccctgg tactggttga ttggacctca    1440
ggggaaaaaa gtgaaaaagg gtagcaaagg ccaatgtctt ctagctgctt cctcaacccc    1500
tgtcccctgg agaccagaag ctgaggccct ctcaggagg agacatccaa gcaaatcatt    1560
tggaaaagtt aggaaacctt taggattctg gttccagcca gggttgagga aaagaccttg    1620
```

157

```
gatcaaaagg aagcttctat acctctttct tcttcgcttc ctcctctccc aagcaatgga    1680
aacttttacc catgtaattc tagctgaact caggaaaaag aaggggggaaa ggactctgtc    1740
cccttggggc tcatcaccct tccacatcct cctcctcgtt gccccctggt caggcagctt    1800
cttttttttt ttttaaaaag ggagtttttgt tttgcccccc aggcggaaag gcaggggccc    1860
aatttggtta aatggaaaat ttgccctcgg gattaaagga aattttctgg cttaacccttt   1920
taaggaaccg ggaataacgg ggccctggcc cccccccggg gaaaattttg gattttaagg    1980
gaaaaggggt ttaaccatgg tggccaaaag gggtttaaac ccctgacctt aggggaaccc    2040
ccccccaaaa cctttgaaat tgggggggatt accgggttgg accccaaac ccagcccgga     2100
agggttttttt gggaggggggg gtaaccttgg aattttcaaa cccttagggg ttttttagggc  2160
taaaaagggg accggcccag gccacaaaat taacggggggtt ttaaaaacat ggttgaacct   2220
aattttggaa attttcttta aaaaagggaa ggttttttaa cccaatggcc aaaaactttg     2280
gtttaaaaaa atagccccat aactgggaag aa                                   2312
```

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<400> 6506
cgctccgcaa ttcccgtgtc gacgatttcg tccacagcgg cctagggggtg aaaggacagc    60
cagggttaga tgttctgagg aggcgggagc aaccgagaga gcacgtgagc atctgtcctt    120
tctacccgtt cctctttatc tttagtggtc agtagcagcg gggatagccc ggggcccggt    180
gtatggccac ggagttacag tgtccggact ccatgccctg tcacaaccag caagtaaact    240
ctgcctcaac cccaagtccc gagcagctgc gacctggcga tctgatcctg gaccacgcag    300
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gtggtagtgg tgacagtagc agctatgacg caccagctgg caactccttc ctagaggact    480
gcgaactctc ccggcagatc ggggcgcagc ttaagctgct gcctatgaat gatcagatac    540
gggagctaca gaccatcatc cgggacaaga cagccagtag aggtgacttc atgttttctg    600
cggatcgttt gatcagactt gttgtggaag agggattgaa tcagctgcca tataaagaat    660
gcatggtgac cactccaaca gggtacaagt atgaaggagt gaaatttgag aagggaaatt    720
gtggggtcag cataatgaga agcggtgagg caatggaaca aggtttacga gactgctgtc    780
gatccatacg aattggaaag atcctgattc agagtgatga ggagacacaa agagccaaag    840
tatattatgc caaattcccc ccagacattt accggagaaa agtccttctg atgtatccaa    900
ttctccagac tgggaaatac tgtaattgaa gctgtaaagg ttcttataga acatggagtt    960
caacccagtg ttatcatcct actcagtctg ttctccactc ctcatggtgc caaatcaatc   1020
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cattttggac agaaatactt tggaacagac taagttattt aagtaaaata attgtcttat   1140
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gagaaaaatg tgttaaaatg cttttttagtt ttggaagtgg gtatatttga ggttatatct   1260
catttagtta tttgtttact gttggcaccg aattcaacaa tgaagtatat gcaactctta   1320
caaaacataa attttaataa tattctaatg caaattactg aaccctcagt gcattaaaat   1380
tatttcctaa tttatgagcc tcttagtttg gaggttgctt gaagccacaa ataaaactca   1440
aatgagagtc agttctttgt cccactgtag tttgcatttt gtttagtttg gttttagctc   1500
```

```
tactaaggtt tcacatatgt ggctattgcc acattcctct actgttttct ttctgatact      1560
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attaatgtcc tcattcaatt ggcagaccta ggatgtatgg ttaactctca ggccattatg      1680
tttttcatgg ctcatttccc aaactgcatt gttggtaggt gccttgctaa gctgtaatgc      1740
agtgaagaag atggtggggc atttttagta attggaactg taacattaat ttacaagatt      1800
gaaccgggga tgtctggatg ctgacaaggg agagccaagt actgttaatg ccatcaatcc      1860
tctaggaagg aattggtggt ttttctgaag tgtggggggaa agggtggttt cttgctggat      1920
ttcatggcca gtaagtaaat ttaaatgctt catttttaat ttggatgttt ctgctagaga      1980
cctttgattt ggaaattagt tattttgcat gtttgtcaac tgtatatgta tgaaaataga      2040
aaaaaaacat gcttttttgta aaaaccccta agatttgtat atgttcatct ttaggcttct      2100
gaaagggaga gaaatcatat tggaaatcag tgttggtgtt ttgaaatctg cttgtaaaac      2160
tctcatctca ttttacattg atattaaaac attttaacag tg                         2202
```

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gctccggcca ggtgagcggg gcgcataggt gacggagggc cgagggcacg ggtatgagtt       120
tctgccgggg gcgaggtgag cggcttctgg gaggaggcct tttcttgaca gtttagggta       180
gcgggggaat ggatgatccg ggagtcccct gcggatgtcg tcccgcacca ggccgggacc       240
gatttctggc tccagtttcc ccagaattgc ggagtgcgca cacctggaag gacccaagtc       300
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gctggaactg gaacccagtt cccttttaga ctatggcgac atacctggag ttcatccagc       420
agaatgaaga acgggatggt gtgcgtttta gttggaacgt gtggccttcc agccggctgg       480
aggctacaag aatggttgta cccctggctt gtctccttac tcctttgaaa gaacgtccag       540
acctacctcc tgtacaatat gaacctgtgc tttgcagcag gccaacttgt aaagctgttc       600
tcaacccact ttgtcaggtt gattatcgag caaaactttg ggcctgtaat ttctgttttc       660
aaagaaatca gtttcctcca gcttatggag gcatatctga ggtgaatcaa cctgccgaat       720
tgatgcccca gttttctaca attgagtacg tgatacagcg aggtgctcag tcccctctga       780
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ccctgcagat gtccctgagt cttcttcctc cagatgctct ggtgggtctg atcacatttg       900
gaaggatggt gcaggttcat gagctaagct gtgaaggaat ctccaaaagt tatgtcttcc       960
gagggaccaa ggatttaact gcaaagcaaa tacaggatat gttgggcctg accaagccag      1020
ccatgcccat gcagcaagca cgacctgcac aaccacagga gcacccttttt gcttcaagca      1080
gatttctgca gccctgttca caagattgat atgaacctca ctgatcttct ggggagcta       1140
cagagggacc catggccagt aactcagggg aagagacctt tgcgatccac tggtgtggct      1200
ttgtccattt gctgttggct tgctggaggg cacttttcca aacacaggga gccaggatca      1260
tgctgtttac tggaggtccc cctacccaag ggcctggcat ggtggttgga gatgaattaa      1320
agattcctat tcgttcttgg catgatattg agaaagataa tgcacgattc atgaaaaagg      1380
caaccaagca ctatgagatg cttgctaatc gaacagctgc aaatggtcac tgcattgata      1440
tttatgcttg tgcccttgat caaactggac ttttggagat gaagtgttgt gcaaatctta      1500
```

```
ctggaggcta catggtaatg ggagattctt tcaacacttc tctcttcaag cagacattcc    1560
aaagaatctt tactaaagat tttaatggag atttccgaat ggcatttggt gctactttgg    1620
acgtaaagac ctctcgggaa ctgaagattg caggagccat tggtccatgc atatctctga    1680
atgtgaaagg accgtgtgtg tcagaaaatg agcttggtgt tggtggcacg agtcagtgga    1740
aaatctgtgg cctagatcct acatctacac ttggcatcta ttttgaagtt gtcaatcagc    1800
acaacacccc gatcccccaa ggaggcagag gagccatcca gtttgtcacg cattatcagc    1860
actccagcac ccagagacgc atccgcgtga ccaccatcgc ccgaaattgg gcagatgtac    1920
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cacggcttgg ggtgttccga gcggagtcag aggagggggcc cgatgtgctc cggtggctgg    2040
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cttttaggtt atcagattcc ttttctctat atcctcagtt tatgttccat ctgagaagat    2160
ctccatttct tcaagtgttt aacaacagtc ctgatgagtc gtcatattac agacatcatt    2220
ttgcccggca ggacctgacc cagtccctca tcatgatcca gcccattctc tactcttact    2280
cctttcatgg gccaccagag ccagtactct ggatagcag cagcattcta gctgacagaa    2340
ttttgctgat ggatactttc tttcaaattg tcatttatct tggtgagacc atagcccagt    2400
ggcgtaaagc tggctaccag gacatgcccg agtatgaaaa cttcaagcac cttctgcagg    2460
caccactgga tgatgctcaa gaaattctgc aagcacgctt cccgatgcca cgttacatca    2520
acacggagca tggaggcagt caggctcgat tccttttgtc caaagtgaac ccatctcaga    2580
cacacaataa cctgtatgct tggggacagg aaactggagc acccatccta actgatgatg    2640
ttagcctgca ggtgttcatg gaccatttga agaagctggc tgtctccagt gcctgttaag    2700
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tgtaactctt tagattataa tttatttgta ttcctgtctt tgtccttttt cttgcactat    2880
aaaattataa ggtcataaat gttttggtac ttgtagatgt ttatgtgctt tttgtatcct    2940
aacttttaga atctaaataa aatcagaggt aatgtatttt ggcagcttgt ttaggtgaga    3000
atcttaatga tcataaaagg aaataaatct agatgcagaa agtactggct aaaatattgc    3060
taatacaaat gtgatttcct gaggtctctg tgtgagtgtg tatgtgtttt aagtgacttc    3120
cttaagaggt gtttccctga accctaattc cccataatta aagtaatgta tatgccagga    3180
tcaaaatgaa acaaatatac cttatcccta aagagctcat aacaaataag ttacctccac    3240
tctataaact cagacctact ttttgaagat aactgctttt aacctctcct tacaagattt    3300
ttgttgttga tgtatttaat tttagcccat gtctcaattc tcattttcaa agaaatcaat    3360
atattaatat acctttggtc aaaaaaaaaa aaa                                 3393
```

```
       <400> 6508
cccacgcgtc cgccgccgcc accgtaaggc taggccgcga gcttagtcct gggagccgcc      60
tccgtcgccg ccgtcagagc cgccctatca gattatctta acaagaaaac caactggaaa     120
aaaaaatgaa attccttatc ttcgcatttt tcggtggtgt tcacctttta tccctgtgct     180
ctgggaaagc tatatgcaag aatggcatct ctaagaggac ttttgaagaa ataaaagaag     240
aaatagccag ctgtggagat gttgctaaag caatcatcaa cctagctgtt tatggtaaag     300
```

```
cccagaacag atcctatgag cgattggcac ttctggttga tactgttgga cccagactga    360
gtggctccaa gaacctagaa aaagccatcc aaattatgta ccaaaacctg cagcaagatg    420
ggctggagaa agttcacctg gagccagtga gaataccca ctggggagagg ggagaagaat    480
cagctgtgat gctggagcca agaattcata agatagccat cctgggtctt ggcagcagca    540
ttgggactcc tccagaaggc attacagcag aagttctggt ggtgacctct ttcgatgaac    600
tgcagagaag ggcctcagaa gcaagaggga agattgttgt ttataaccaa ccttacatca    660
actactcaag gacggtgcaa taccgaacgc aggggggcggt ggaagctgcc aaggttgggg    720
ctttggcatc tctcattcga tccgtggcct ccttctccat ctacagtcct cacacaggta    780
ttcaggaata ccaggatggc gtgcccaaga ttccaacagc ctgtattacg gtggaagatg    840
cagaaatgat gtcaagaatg gcttctcatg ggatcaaaat tgtcattcag ctaaagatgg    900
gggcaaagac ctacccagat actgattcct tcaacactgt agcagagatc actgggagca    960
aatatccaga acaggttgta ctggtcagtg gacatctgga cagctgggat gttgggcagg   1020
gtgccatgga tgatggcggt ggagccttta tatcatggga agcactctca cttattaaag   1080
atcttgggct gcgtccaaag aggactctgc ggctggtgct ctggactgca gaagaacaag   1140
gtggagttgg tgccttccag tattatcagt tacacaaggt aaatatttcc aactacagtc   1200
tggtgatgga gtctgacgca ggaaccttct tacccactgg gctgcaattc actggcagtg   1260
aaaaggccag ggccatcatg gaggaggtta tgagcctgct gcagcccctc aatatcactc   1320
aggtcctgag ccatggagaa gggacagaca tcaacttttg gatccaagct ggagtgcctg   1380
gagccagtct acttgatgac ttatacaagt atttcttctt ccatcactcc cacggagaca   1440
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ccctcttcac ataaccattt tcatcccaat tcatcttcaa agcacaactc taatttcatg   1680
ctttctcgtt attatctttc ttggatactt tccaaattct ctggattcta ggaaaaaggg   1740
aatcattctc ccctcccctc cccacccaca tagaatcaac atatggtagg gattacagtg   1800
ggggcatttt ctttatatca cctcttaaaa acattgtttc cactttaaaa agttaaacac   1860
ttaataaatt tttggaaata atctgaaaaa aaaaa                              1895



        <210> 6509
        <211> 1678
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (146)...(1264)
        <223> similar to gi927040 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters



        <400> 6509
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ctgctacttt ggattggcca cgatgggctg gagctgcctt gtgacaggag caggagggct    180
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caagctgact gtacttgaag gagacattct ggatgagcca ttcctgaaaa gagcctgcca    360
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agagtccatc atgaatgtca atgtgaaagg tacccagcta ctgttggagg cctgtgtcca    480
agccagtgtg ccagtcttca tctacaccag tagcatagag gtagccgggc ccaactccta    540
caaggaaatc atccagaacg gccacgaaga agagcctctg gaaaacacat ggcccactcc    600
```

5151

```
atacccgtac agcaaaaagc ttgctgagaa ggctgtgctg gcggctaatg ggtggaatct      660
aaaaaatggt gataccttgt acacttgtgc gttaagaccc cacatatatc tatggggaag      720
gaggcccatt cctttctgcc agtataaatg aggccctgaa caacaatggg atcctgtcaa      780
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attacatctc agatgacacg cctcaccaaa gctatgataa ccttaattac atcctgagca      960
aagagtttgg cctccgcctt gattccagat ggagccttcc tttaaccctg atgtactgga     1020
ttggcttcct gctggaagta gtgagcttcc tactcagccc aatttactcc tatcaacccc     1080
ccttcaaccg ccacacagtc acattatcaa atagtgtgtt caccttctct tacaagaagg     1140
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cacacaatgc ccaacttact gtcttcttca tgtcatcaaa atctgcacag tcactggccc     1440
aaccagaact ttctgtccta atcatacacc agaagacaaa caatatgatt tgctgttacc     1500
aaatctcagt ggctgattct gaacaattgt ggtctctctt aacttgaggt tctcttttga     1560
ctaatagagc tccatttccc ctcttaaatg agaaagcatt tcttttctct ttaatctcct     1620
attccttcac acagttcaac ataaagagca ataaatgttt taatgcttaa aaaaaaaa     1678
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<210> 6510
<211> 2359
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (501)...(1246)
<223> similar to gi3882271 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6510
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gagctcatcc acacttccaa tcactttccg gagtgcttcc cctccctccg gcccgtgctg      180
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gagtcagaag aaatgggact ccctccgcga cgtgcccgga gcagctccct tcgctgtgga      360
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ttcggtccgt ttccaaacac taaggaatcg aaactcggcg gccttggggg cggccctacg      480
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atgaaaaagc ccataagaga gatacagtga ctccagtttc aatatattca ggagatgaat      600
ctgttgcttc ccattttgct cttgtcactg catatgaaga catcaaaaaa cgacttaagg      660
attcagagaa agagaactct ttgttaaaga agagaataag atttttggaa gaaaagctaa      720
tagctcgatt tgaagaagaa acaagttccg tgggacgaga acaagtaaat aaggcctatc      780
atgcatatcg agaggtttgc attgatagag ataatttgaa gagcaaactg gacaaaatga      840
ataaagacaa ctctgaatct ttgaaagtat tgaatgagca gctacaatct aaagaagtag      900
aactcctcca gctgaggaca gaggtggaaa ctcagcaggt gatgaggaat ttaaatccac      960
cttcatcaaa ctgggaggtg aaaagttga gctgtgacct gaagatccat ggtttggaac     1020
aagagctgga actgatgagg aaagaatgta gcgatctcaa aatagaacta cagaaagcca     1080
aacaaacgga tccatatcag gaagacaatc tgaagagcag agatctccaa aaactaagca     1140
```

```
tttcaagtga taatatgcag catgcatact gggaactgaa gagagaaatg tctaatttac   1200
atctggtgac tcaagtacaa gctgaactac taagaaaact gaaaacctca actgcaatca   1260
agaaagcctg tgcccctgta ggatgcagtg aagaccttgg aagagacagc acaaaactgc   1320
acttgatgaa ttttactgca acatacacaa gacatccccc tctcttacca aatggcaaag   1380
ctctttgtca taccacatct tcccctttac caggagatgt aaaggtttta tcagagaaag   1440
caatcctcca atcatggaca gacaatgaga gatccattcc taatgatggt acatgctttc   1500
aggaacacag ttcttatggc agaaattctc tggaagacaa ttcctgggta tttccaagtc   1560
ctcctaaatc aagtgagaca gcatttgggg aaactaaaac taaaactttg cctttaccca   1620
accttccacc actgcattac ttggatcaac ataatcagaa ctgcctttat aagaattaat   1680
ttggaagaga ttcacgattt caccatgagg acacttatct ctttcagtgg tcctcccaag   1740
aaattattta acaaactgaa aggagatttt gattaaaatt ttgcagaggt cttcagtatc   1800
tatatttgaa cacactgtac aatagtacaa aaaccaacat agttggtttt ctagtatgaa   1860
agagcaccct ctagctccat attctaagaa tctgaaatat gctactatac taattaataa   1920
gtaaacttaa ggtgtttaaa aaactctgcc ttctatatta attgtaaaat tttgcctctc   1980
agaagaatgg aattggagat tgtagacgtg gttttacaaa atgtgaaatg tctaaatatc   2040
tgttcataaa aataaaagga aaacatgttt cttcaaattg cataatggaa caaatggcaa   2100
tgtgagtagg ttacatttct gttgttataa tgcgtaaaga tattgaaaat ataatgaaat   2160
aaaagcatct taggttatac catctttata tgctattgcg tttcaatatt taagatttaa   2220
agtgattttt tggtcacagt gttttgttga taaaattttt ttagaattga agtttgaatt   2280
ctaagacttg aaacaacctg atcactgaag ccaactttgt cccagcacat tccttaagtc   2340
ctaattggga aaaaaaaaa                                                 2359
```

<210> 6511
<211> 2160
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(1322)
<223> similar to gi217422 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6511
```
tttcgtcggc gacggggcgc tctcgggctg ccggcggggc cgagcgccgc gcgtcccgag    60
catggcaggc tccctgcctc cctgcgtggt ggactgtggc accgggtata ccaagcttgg   120
ctacgcaggc aacactgagc cccagttcat tattccttca tgtattgcca tcagagagtc   180
agcaaaggta gttgaccaag ctcaaaggag agtgttgagg ggagttgatg accttgactt   240
tttcatagga gatgaagcca tcgataaacc tacatatgct acaaagtggc cgatacgaca   300
tggaatcatt gaagactggg atcttatgga aaggttcatg gagcaagtgg tttttaaata   360
tcttcgagct gaacctgagg accattattt tttaatgaca gaacctccac tcaatacacc   420
agaaaacaga gagtatcttg cagaaattat gtttgaatca tttaacgtac caggactcta   480
cattgcagtt caggcagtgc tggccttggc ggcatcttgg acatctcgac aagtgggtga   540
acgtacgtta acggggatag tcattgacag cggagatgga gtcacccatg ttatcccagt   600
ggcagaaggt tatgtaattg gaagctgcat caaacacatc ccgattgcag gtagagatat   660
tacgtatttc attcaacagc tgctaaggga gagggaggtg ggaatccctc ctgagcagtc   720
actggagacc gcaaaagcca ttaaggagaa atactgttac atttgccccg atatagtcaa   780
ggaatttgcc aagtatgatg tggatccccg gaagtggatc aaacagtaca cgggtatcaa   840
tgcgatcaac cagaagaagt ttgttataga cgttggttac gaaagattcc tgggacctga   900
aatattcttt cacccggagt ttgccaaccc agactttatg gagtccatct cagatgttgt   960
```

5153

```
tgatgaagta atacagaact gccccatcga tgtgcggcgc ccgctgtata agaatgtcgt    1020
actctcagga ggctccacca tgttcaggga tttcggacgc cgactgcaga gggatttgaa    1080
gagagtggtg gatgctaggc tgaggctcag cgaggagctc agcggcggcg aggatcaagc    1140
cgaagcctgt ggaggtccag gtggtcacgc atcacatgca gcgctacgcc gtgttggttc    1200
ggagggctcc atgctggcct cgactcccga gttctttcag gtctgccaca ccaagaagga    1260
ctatgaagag tacgggccca gcatctgccg ccacaacccc gtctttggag tcatgtccta    1320
gtgtctgcct gaacgcgtcg ttcgatggtg tcacgttggg gaacaagtgt ccttcacaac    1380
ccagagaagg ccgccgttct gtaaatagcg acgtcggtgt tgctgcccag cagcgtgctt    1440
gcattccgg tgcatgaggc gcggcgcggg cccttcagta aaagccattt atccgtgtgc    1500
cgaccgctgt ctgccagcct cctccttctc ccgccctcct caccctcgct ctccctcctc    1560
ctcctcctcc gagctgctag ctgacaaata caattctgaa ggaatccaaa tgtgactttg    1620
aaaattgtta gagaaaacaa cattaggaaa atgggcgcaa aatcgttagg tcccaggaga    1680
gaatgtgggg gcgcaaaccc ttttcctccc agcctatttt tgtaaataaa atgtttaaac    1740
ttgaaataca aatcgatgtt tatatttcct atcattttgt attttatggt atttggtaca    1800
actggctgat actaagcacg aatagatatt gatgttatgg agtgctgtaa tccaaagttt    1860
ttaattgtga ggcatgttct gatatgttta taggcaaaca aataaaacag caaacttttt    1920
tgccacatgt ttgctagaaa atgattatac tttattggag tgacatgaag tttgaacact    1980
aaacagtaat gtatgagaat tactacagat acatgtatct tttagttttt tttgtttgaa    2040
ctttctggag ctgttttata gaagatgatg gtttgttgtc ggtgagtgtt ggatgaaata    2100
cttccttgct ctcattgtaa taaaagctgt tagaatattt gtaaatatca aaaaaaaaaa    2160
```

```
      <210> 6512
      <211> 1191
      <212> DNA
      <213> Homo sapiens

      <220>
      <221> misc_feature
      <222> (1)...(1192)
      <223> n = a,t,c or g

      <220>
      <221> misc_feature
      <222> (18)...(779)
      <223> similar to gi4545103 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters


      <400> 6512
gttggggatc cagagccatg tcggacctgc tactactggg cctgattggg ggcctgactc     60
tcttactgct gctgacgctg ctggcctttg ccggggggccc cctgataagt gccgatgtgc    120
cgtgggcagc atcctgagtg aaggtgagga atcgccctcc cctgagctca tcgacctcta    180
ccagaaattt ggcttcaagg tgttctcctt cccggcaccc agccatgtgg tgacagccac    240
cttcccctac accaccattc tgtccatctg gctggctacc cgccgtgtcc atcctgcctt    300
ggacacctac atcaaggagc ggaagctgtg tgcctatcct cggctggaga tctaccagga    360
agaccagatc catttcatgt gcccactggc acggcaggga gacttctatg tgcctgagat    420
gaaggagaca gagtggaaat ggcggggggct tgtggaggcc attgacaccc aggtggatgg    480
cacaggagct gacacaatga gtgacacgag ttctgtaagc ttggaagtga gccctggcag    540
ccgggagact tcagctgcca cactgtcacc tggggcgagc agccgtggct gggatgacgg    600
tgacacccgc agcgagcaca gctacagcga gtcaggtgcc agcggctcct cttttgagga    660
gctggacttg gagggcgagg ggcccttagg ggagtcacgg ctggaccctg ggactgagcc    720
```

                              5154

```
cctgggggact accaagtggc tctgggagcc cactgcccct gagaagggca aggagtaacc     780
catggcctgc accctcctgc agtgcagttg ctgaggaact gagcagactc tccagcagac     840
tctccagccc tcttcctcct tcctctgggg gaggaggggt tcctgaggga cctgacttcc     900
cctgctccag gcctcttgct aagccttctc ctcactgccc tttaggctcc cagggccaga     960
ggagccaggg actattttct gcaccagccc ccagggctgc cgcccctgtt gtgtcttttt    1020
ttcagactca cagtggagct tccaggaccc agaataaagc caatgattta cttgtttcac    1080
ctggnnnnnn nnnnnnnngg gggggccgtt ttaaaggatc cttgggggggg ccaaagctta    1140
cgggggcagg caacggaata gtttttttcct tataggggagc cgaattatac c          1191
```

        <400> 6513

```
ttcacagatg cactgctcag gcctggcctg gcatcctgac atagccaccc agttagtgct      60
gtgctcagag gatgatcgac ttcccgtgat tcagctgtgg gacttgcgct ttgcctcctc     120
gcccttgaag gtgctggaga gccacagcag ggggatcttg tcagtgtcat ggagccaggc     180
tgatgctgag ctgctgctca ctagtgctaa ggacagccag atcttgtgcc ggaacctggg     240
gagcagtgag gtggtatata agctaccaac acagagcagc tggtgctttg atgtgcagtg     300
gtgccctcgg gacccttcag tgttctctgc tgcctccttc aacggctgga tcagtttgta     360
ctctgtgatg ggtaggagct gggaagtcca gcatatgaga caggctgaca agatctcctc     420
ttccttcagc aaaggccagc ctctcccacc actgcaggtg ccagagcaag tggcacaagc     480
accactgata cctcccctga aaaaacccccc caaatggatt agaagaccaa caggtgtttc     540
atttgctttt ggagggaagc tggttacttt tggcctcccc agcacccctg cccatctggt     600
gccacagcct tgcccccgcc tagtcttcat cagtcaagtc accacagaat ctgaattcct     660
gatgcgatca gctgagctgc aggaggcctt gggatcagga aatctactga attactgtca     720
gaacaagagc cagcaagctt tactgcaaag tgaaaagatg ctgtggcagt tcctgaaggt     780
gaccttagag caagactcca gaatgaaatt cctaaagctt ttaggataca gtaaagatga     840
gcttcagaag aaggtggcca catggttgaa gagtgacgtg gggctaggtg agagtcctca     900
gcccaaggga aatgacctca acagtgacag acaacaggcc ttctgcagcc aggcctccaa     960
acacaccaca aaggaagcct ctgcttcctc agccttcttt gatgagctgg tccctcagaa    1020
catgactcct tgggagatcc ccatcacaaa agatattgat ggactcctaa gccaggctct    1080
cctgcttggg gaactgggtc cggccgtgga gctgtgtctg aaggaggagc gctttgctga    1140
tgccattatc ctggcccagg ctgggggtac agatctgctg aagcaaacac aggagcgcta    1200
cttggccaag aagaaaacca aaatctcctc gcttctagcc tgtgttgtgc aaaagaattg    1260
gaaggatgtg gtgtgtacct gtagcctgaa gaactggaga gaggcactgg ctttgctact    1320
gacatactca ggcacagaga aatttcccga gctctgtgac atgctgggaa ctcgcatgga    1380
acaggagggc agcagggcac taacctccga agccagactc tgttatgtgt gctcagggag    1440
tgtggagcgg ctggtggagt gctgggcaaa atgccaccag gctttgtccc ccatggctct    1500
gcaggacctg atggagaagg tgatggttct taacaggagc ttggagcaac tgcggggtcc    1560
tcatggggtg agcccaggcc ctgccacaac ctacaggggtc actcagtatg ccaacctcct    1620
ggcagcccag ggcagcctgg ccactgccat gagctttcta cccagggact gtgctcagcc    1680
accagttcag cagctaagag atcggctttt tcatgctcaa ggttctgctg tcttgggcca    1740
```


5155

```
acagtctccc cctttcccct tcccccggat tgttgtggga gttaccctcc actctaaaga    1800
gacatcatct tacagattgg gatccccagc cttctcacca ggtcccaact ccatctccaa    1860
ggccaagggt tttcacccct cagtcatcac cagcgatgcc cttggcacct tcccatccta    1920
gcccttatca gggtcccagg acacagaata taagtgacta cagggcacct gggccccagg    1980
ccatccagcc tttgcctttg agccctgggg taaggcctgc ttcatctcag ccacagctat    2040
taggagggca aagggtgcaa gttcctaacc cggtgggatt ccctgggaca tggcctcttc    2100
ctggttcccc tctacccatg gcatgcccag gcatcatgcg acctggctct acctccctgc    2160
ctgagactcc tagactgttc cctctgcttc ctctgagacc actaggtccc ggccgcatgg    2220
tctcccacac cccagcccct cctgcaagct tccctgtgcc ataccttcca ggggacccag    2280
gtgccccatg ctctagtgtc ctcccaacca ctggcatctt gactcctcac ccaggacctc    2340
aagattcctg gaaagaagcc ccagccccca ggggaaacct ccagaggaac aagctgccag    2400
agacatttat gcccccagca ccaattactg ctccagttat gagcctcacc cctgagctac    2460
aagggattct tccctcacag ccccctgtct ccagtgtgag tcatgctccc ccaggagttc    2520
caggagaact cagcctgcag cagcttcagc acctgccacc tgagaagatg gaaaggaagg    2580
agctgccccc agagcatcag tccttgaaga gcagctttga ggcgcttctc caacgctgct    2640
ccctgtctgc aactgactta aagacaaaaa ggaagctgga agaggcagcc cagcgtctgg    2700
agtatctata tgagaagctc tgtgagggga cactctcacc tcatgtcgtg gctgggctcc    2760
atgaggttgc ccgatgtgtg gatgcaggaa gctttgagca gggccttgca gtgcatgccc    2820
aggtggcggg ctgtagcagc ttcagcgagg tgtccagctt catgcctatc ctgaaggctg    2880
tcctcatcat cgctcataag ctgctggtct aaaccaggca gcctctcttg ctaggaggcc    2940
acttctgctg ttacataact cctccctgca gaagagggga cttctgcaac agattctgtt    3000
tcttttttccc gactcttttc cttgctgcca ggtatgtgat gctgtaggct tggctccaaa    3060
ccagctgagt gcctgctttt tactccttta tgtctggcct tctaggatct gtccaagaca    3120
ctctcaggcc tggagggagg gcatagaatc agttcttcac tctccctaat actacactct    3180
gtaaggacct ggggcaggat atcttctccc ccagggatct tctatttaag tggcttctga    3240
gagggtgaac aggattgtta cttttaagcc tacctctgct gtgacccatc atgtgggtct    3300
tttgtttctc ccttctgtgg tttatgagcc tgcccttacc ttttccctgc ctctgacttg    3360
gtatttccag gtccgtattt ctctgtagcc cagggtctgg ggtagagctg actgctgttc    3420
acccttttgaa caactcatgg acgtgaggga tgggtgctga gcagaaccaa gagaggaaac    3480
tttggcgctg ttaaaatgga atttctcatc tgccggcatt attaagggtg ggctaggttg    3540
gatggaaggt gaaagggatg aactgccttt tgctggaagc tgtcttaggc tgtgagacag    3600
gagcagggga accacagcct atggggaact gcccttgact ccacctatgt tggagcctta    3660
gcccaaggcc attccttctg tgatgataaa gcccagttct ggaattggag ccatattaag    3720
gaatgattct cttccagcgc tgctcctcaa gggttggggg tccttctccc tcgcagccac    3780
cacatgtctc agggctacct tctccgattg gatttgcatt tgtggcactg tctttgatgc    3840
agtgatgtac ttaatggtgc aataaagctg cttcgatttg gtaaaaaaaa aa           3892
```

```
<210> 6514
<211> 2652
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (338)...(1092)
<223> similar to gi1280387 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 6514
tttcgtgcgc catgtgaggg ggctcggggg ccgcgggggg ccgggcgctc cccgccggag     60
```

```
atgaggaaac tgaggctcag agaggtcaca tggcttgctc gaggcccccc agccagtgtg    120
aacccacatc cctgcccccа gggccacctg caggacgccg acacctaccc ctcagcagac    180
gccggagaga aatgagtagc aacaaagagc agcggtcagc agtgttcgtg atcctctttg    240
ccctcatcac catcctcatc ctctacagct ccaacagtgc caatgaggtc ttccattacg    300
gctccctgcg gggccgtagc cgccgacctg tcaacctcaa gaagtggagc atcactgacg    360
gctatgtccc cattctcggc aacaagacac tgccctctcg gtgccaccag tgtgtgattg    420
tcagcagctc cagccacctg ctgggcacca agctgggccc tgagatcgag cgggctgagt    480
gtacaatccg catgaatgat gcacccacca ctggctactc agctgatgtg ggcaacaaga    540
ccacctaccg cgtcgtggcc cattccagtg tgttccgcgt gctgaggagg ccccaggagt    600
ttgtcaaccg gacccctgaa accgtgttca tcttctgggg gccccgagc aagatgcaga    660
agccccaggg cagcctcgtg cgtgtgatcc agcgagcggg cctggtgttc cccaacatgg    720
aagcatatgc cgtctctccc ggccgcatgc ggcaatttga cgacctcttc cggggtgaga    780
cgggcaagga cagggagaag tctcattcgt ggttgagcac aggctggttt accatggtga    840
tcgcggtgga gttgtgtgac cacgtgcatg tctatggcat ggtcccccc aactactgca    900
gccagcggcc ccgcctccag cgcatgccct accactacta cgagcccaag gggccggacg    960
aatgtgtcac ctacatccag aatgagcaca gtcgcaaggg caaccaccac cgcttcatca   1020
ccgagaaaag ggtcttctca tcgtgggccc agctgtatgg catcaccttc tcccacccct   1080
cctggaccta ggccacccag cctgtgggac ctcaggaggg tcagaggaga agcagcctcc   1140
gcccagccgc taggccaggg accatcttct ggccaatcaa ggcttgctgg agtgtctccc   1200
agccaatcag ggccttgagg aggatgtatc ctccagccaa tcagggcctg gggaatctgt   1260
tggcgaatca gggatttggg agtctatgtg gttaatcagg ggtgtctttc ttgtgcagtc   1320
agggtctgcg cacagtcaat cagggtagag ggggtatttc tgagtcaatc tgaggctaag   1380
gacatgtcct ttcccatgag gccttggttc agagccccag gaatggaccc cccaatcact   1440
ccccactctg ctgggataat ggggtcctgt cccaaggagc tgggaacttg gtgttgcccc   1500
ctcaatttcc agcaccagaa agagagattg tgtgggggta gaagctgtct ggaggcccgg    1560
ccagagaatt tgtgggggttg tggaggttgt gggggcggtg gggaggtccc agaggtggga   1620
ggctggcatc caggtcttgg ctctgccctg agaccttgga caaacccttc cccctctctg   1680
ggcacccttc tgcccacacc agtttccagt gcggagtctg agacccttc cacctcccct   1740
acaagtgccc tcgggtctgt cctccccgtc tggaccctcc cagccactat cccttgctgg   1800
aaggctcagc tctttggggg gtctggggtg acctccccac ctcctggaaa actttagggt   1860
attttgcgc aaactccttc agggttgggg gactctgaag gaaacgggac aaaaccttaa   1920
gctgttttct tagcccctca gccagctgcc attagcttgg ctcttaaagg gccaggcctc   1980
cttttctgcc ctctagcagg gaggttttcc aactgttgga ggcgcctttg gggctgcccc   2040
tttgtctgga gtcactgggg gcttccgagg gtctccctcg accctctgtc gtcctgggat   2100
ggctgtcggg agctgtatca cctgggttct gtccctggc tctgtatcag gcactttatt   2160
aaagctgggc ctcagtgggg tgtgtttgtc tcctgctctt ctggagcctg gaaggaaagg   2220
gcttcaggag gaggctgtga ggctggaggg accagatgga ggaggccagc agctagccat   2280
tgcacactgg ggtgatgggt gggggcggtg actgccccag acttggtttt gtaatgattt   2340
gtacaggaat aaacacacct acgctccggc ttcgtgtcct gtgtcgcctg ggtcgagcac   2400
agccttctgg tccagcgctg catgcggcct caggaccacg tcttccggtt gggggctccc   2460
agtaaagcga tcctcagctt cttcagcagc cagtggccag tgagagcact gacacggctc   2520
ccgggacctc ggcaggatgg aagagaagct gaagaaaacc aagatcatct ttgtggtggg   2580
tgggcctggc tcaaggaagg gcacccagtg tgagaagatc gtgcagaagt atggctacac   2640
ccacctctcc ac                                                       2652
```

<210> 6515
<211> 2123
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2124)

<400> 6515
```
aggtaccgcg ccggaattcc cggggacggt cgcaaggatt acattcgcct gacccggccc        60
ggcttgaccc tgcccgggcg cgccatgttc gcgcgtgggt cccggaggcg ccgctccggg       120
cgtgcgcctc cagaggcaga ggacccagac cggggccagc cctgcaactc ctgtagggag       180
cagtgccctg gcttcctgct ccacggctgg agaaagatct gccagcattg caaatgcccg       240
cgggaggagc atgcagtgca cgcggtgcct gtggacctgg aacgcatcat gtgtcggcta       300
atctcggact tccagcgcca ctccatctcc gacgacgact caggctgtgc atcggaggag       360
tatgcctggg tgcccccagg ccttaagccg gagcaggtat atcaattttt cagctgcctc       420
ccagaggaca aggtccccta cgtcaacagt cctggggaga aatacaggat caagcagctg       480
ctgcaccagc tgccccaca cgacagtgag gcacagtact gcacagcact tggaagaagg       540
aggaaaagaa agagctccga gcctttagcc agcagcggaa gcgggagaat cttggggcct       600
tggcatcgtg cgcatcttcc cggtgaccat cacttggggc catcttgtga ggagtgcgga       660
aagcagattg gaggtgggga catcgcagtg ttttgccagc cgtgcaagcc ttgggttgct       720
gnttggacaa ccaagttgct ttcgtgtgta ccacgtgcca ggaactgctg gttgacctca       780
tctacttcta ccatgttggc aaggtctact gcgggcgtca ccatgccgaa tgcctgcgtc       840
cacgctgcca agcctgtgac gagatcatct tctcccctga gtgcacggag ctgagggcc       900
gccactggca catggatcac ttctgctgct ttgagtgtga agcttcacta ggagggcagc       960
gctatgtcat gcgtcagagc cgcccccact gctgcgcctg ctacgaggcc cgccacgcgg      1020
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gccagcactg gcatgcctca gaccgctgct tctgctgtag tcgctgtggg cgggccctgc      1140
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taaatcctct tcctccctcc tttatcagat tggttctatt tttggttctg gtttagagac      2100
ttggtctacc ctattggcca ggc                                             2123
```

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (469)...(148)
<223> similar to gi871345 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 6516
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cctgtgggtg gggtggggggc tggaacctat gaacattctg caggggccac tgacttctcc    180
acggtgctcc cttcttgcat aacctggcag ctgtagcttc tgcgggacct ccactgctcg    240
ggcgtcaggc tcaggtagct gctggccacg tacttgttgt tgctctgttt ggagggcgtg    300
gtcttctcca cgctctgggt gatgagggta ccatctgcct tccaggtcac catcaagatt    360
cccggataaa gttattcatg agacacacca gtgtggcctt gttggcttgg ggctcctcac    420
aggacggcag gaacagaatg accgacgggg tagtcttggg ctgacctgtg tggacagagg    480
aggggggtgag agatggcaga gggagtgtgg ggtgttgtgg agcgcctctc tctgtctaaa    540
gtctctggga gggttcatgg tgtggccgtc tggtccaccc agggcctctc cttccctcct    600
cattccctcc tttccactgg agccctctgc agagcagaca gccctgtgcc ttcctaggag    660
cccttcccaa gtcacctttc ccaggtgtcc tggcccagcc ctttcctctg cagcctcagt    720
ttccccgtgt gtacccaggg caggctgtgc tccctccttc ctggtttctg ggaattccac    780
cgcnctgact aatgtcatca gtgnntcaat tnnccccccct ccctcg                   827
```

<210> 6517
<211> 6333
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (6093)...(4979)
<223> similar to gi4929591 in the genepept database release 114,
  Run with FASTXY 3.3t00, default parameters

<400> 6517
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aaatatactt gacacagcaa gacagtcatg gtattgttga gtgaaaaaaa gttacaaaac    180
agtatgtaca ctttgatccc attaaaaata tctataaatg cacagaaaag tctggaaggc    240
catatactta aataacagtg gttctccctg gatgatggaa ttatcagtga ttttttctttc    300
tcactgaatc ttttttcttt ttgccaacag ggctatgact tgtattataa aaaagcatta    360
acaattcttt aaaaagtgtc ctttgaagta agaatgagag cagaacttag caatctaaga    420
```

```
ggcacaggga tgtacacatg gtttctgata ctgtttttaac ggtttgtcaa ggtgttttga    480
tgttagtcac caattaaaaag gcactgtgtt gagtgaaaac gtggatggtg gtagtgctta    540
ctttagacta agcaatccat tcctagaaac cttccacagc aaacaagtac tggcattcta    600
agcaatactt cccactatga tatccttata ccttcctacc cacttgtaat acagcccaga    660
agtttcccct acatggacag ggcactgttg ttggttaagg gttacagaag gcagagagga    720
tttttcaagt gatgtcagag aataggcctg aaggtgaaat gaatgttctc ttagttctat    780
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gctgggctcc actctcagag tttgattcag taggtctctg aaaaggctta taaatttgca    900
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gagttgggaa tgtaactgcc atcaaaagaa ttatagtttt tatctcaggg agcctacatt   1020
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cagcctccaa agtgctggga ttacaggcat gagccacggc acccaggccc tgagtagact   1620
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5160

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<400> 6518

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5162

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ctataatttg tgtttttaat ttcttgatat gtcacttctg ttcctccctg cttgcatttt     4680
ttaaaaacta gacattgtgg cttgagaatt tatcaatcat ctttccgaaa tgaccacatt     4740
gtgctttttag tttgtatgtt taagtggtca agcaaggctc taggaggtag tcactgagct     4800
ggaccttaaa cacatctgca ggagctcaca aaatgggagc aaaagaggca ttccagaaag     4860
aagagtagtt aagcagatgt gggggcaggg caagaggaga cagcaccttg ttgccagaga     4920
ttctacacaa aggtgtgatg gacactgatg ctctattaag aagcttttgt ggtgtgtgtg     4980
gtagagaata attaaggctt ctgataagac aggaaaggga tatttcatca tgactgttaa     5040
gaaaaggtaa ctgggttgtt taatgtttta attgataatt gtcactgatc gtatttctac     5100
ttgttaaata attaaaaatc atcttaaaat tcatactttg actttaattt agacacaagg     5160
agatgtaatc gctgtgtaac atcagagaaa gctatatgga ttatcgtcag aagtaaatgt     5220
ttcctaacca ttgacaaaaa aaaaa                                           5245
```

<210> 6519
<211> 1719
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1266)...(107)
<223> similar to gi495871 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6519
```
tttttttttt tatagagttc attcaacaag agtttattgg ggttgtactg tgagctcggc      60
```

5163

```
cagagctgtc ttgagtggcg ggtgtggacg gatctggtcc gggatcattt catgggggcca     120
tggtctgtta catagctgac ttctaggctc cggctggcgt tgagcagagt ccgggagtcc     180
tcgtggctga ccacacacgt gtaggtggct ggctgagggc tgggcggggc tgggacacgc     240
agcacactcc agggcccaga acgtggtgct cctggggctt tggaaggggg cgtgcggggg     300
caaacccaga agtgttcacc tcaccgtggt cctccagcca catcaggagg atgttggggg     360
gcgagaagcc agacacctca cacaggagcc acgaggctcg cctcgggagg gtcagacgag     420
gccagcaggt tcagggaaag cttgacgggt gcctgcgcag cgggttctct cagcgccatc     480
aacctctggg gtgggaggct gggatggttc agtgtgcagg tgacggaggt ccccgcgttc     540
cacaaggacc tgggcagggt cagacggctg tgctggctct gggagccgtt gctgtgccgc     600
tccagcagcc cttcctccac gccccctgtg gggaccttcc cagccacctc ccaggtcagg     660
tgagcatcct tcaggtcact gcccaccacg aagcaggtga aggtggcttt gtcccggagc     720
cacaggtcct gcactgcagg ggttagcagg tagacgccaa gaggctgggt gtggctcgga     780
cactctggtg tctttgtctc tctctcttct tgttcctctt tctccttctc cttcttcttc     840
tcttctcctc ctcttcctgt gttacgggtg gtggctgggg ctgtggttgc cttggcgagg     900
ctgccctctg cttggggttg tgcagtgggc actgaggagg cctgtgcctt tggagactct     960
ggccagcgga agatctcctt cttactcttg ctggcggtgt gctggaccac gcatttgtac    1020
tcgccttggc gccactgctg gagggggggtg gagagctggc tgcttgtcat gtagtagctg    1080
tcccgtcttt gtatctcagg gaaggttctc tggcgcctgg ctctgtgtcc ccatgtacca    1140
ggtgacagtc aacggacgtt gggtggtacc cagttatcaa gcatgccagg accacagggc    1200
tgttatcctt tgggtgtctg caccctgata tgatggggaa cacatccgga gccttggtgg    1260
gtgctgaaga gacggtgacc attgtccctt ggccccagat atcaaaagca tagtcaccgt    1320
gatctgttgc acagtaatac acggccgtgt cctcagatct caggctgctc agctccatgt    1380
aggctgtgtc tgtagatgtg tcctcggtca tggtgactct gccctggaac ttctgtgcgt    1440
agattgtttc accatcttca ggatcaaaag ctcccatcca ctcaagccct tttccaggag    1500
cctgtcgcac ccagtgcatg gataattcag tgagggtgta tccggaaacc ttgcaggaga    1560
ccttcactga ggccccaggc ttcttcacct cagccccaga ctgtaccagc tggacctggg    1620
cgtgggtgcc tgtagctgct gccaccaaga agaggatcct ccaggtgcag tccatggtga    1680
ggtgctgcac tctggggggct tctgtagggg agggatgtg                          1719
```

<210> 6520
<211> 2016
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1788)...(893)
<223> similar to gi1946343 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6520
```
actaagaaga caagacagaa gacaaagaat aggtaaaaca ggatgtaaaa gtttatatac      60
aagaatataa tgtttatctg aaatatttac agtgttggtt aaagcaatat ttttacaact     120
tttaaaggta aactactatg tatattacag gtaagctaca atgggtttaa tttgcaaaag     180
ttaagtaaga aatgtttaa acaaggctta aagtactcaa gtcaattata aaatttatat     240
cttttgcctt ttacttgaag aaatcatgct atagaaatgg ttaatgtgct tctaataaat     300
ggaagtattg tagctggaat gtgatacatg taacagttta agttcccatt gaaggtataa     360
aatgatgaat tgttgtaaga cttagacact gagtctcagt ctggagctga tgaagatgtt     420
gagataacag ccagctttat ctcaacaggg tttgtgaccc acaagtttgg gccacagaga     480
aaattgaagc aatttgcatg ttatgacaac ctcagtggga agtgaaaatc agctgactca     540
```

```
aaacaacaaa caacaaccaa ccagacccaa gtcacagttg cacctattca aaactagctt      600
taaagtgagc tattttaaa cttcataaaa atattcatga ttttattagt ttgaatattt      660
ctacaagatt cgggtgggct tttcctttag gtgaaaacag ctatccactc ctgtggcctt      720
ataactcagg aaatgctggg gatgcaaacg tgcaaaaggc aggggggaagc tgcccaggct      780
gagactggag cagctaggag tgtgcttggg gaacgggagc tgagatcccg gagcagaaat      840
ggtcagccgt gctctggagc aggcctgtcg gagccatcag gatgccggga ctagcactgc      900
agcttgcgga tgctgcggga gatgcgcttg aactctctct gcccttctg ccaccgcttc      960
accgaggtga tcaccagctc cccaccctgt ttctgtccca tgaccagata gggcgcgttg     1020
atgtcgttca tctcctcaca ggtgcactgc aagctgtctt tgagccacag caccgatttc     1080
ttcaggtccc tttcggacac accgttcagc ttgtaaatgg tcttgctctt ggtctccagg     1140
atgattttgg tatctcggtt gatgtaggtt atctccttca ctttattttt cagtgcaaaa     1200
tcatttttac aaagcgtttc cattaatgtc gttgttcatc atcatttta tttttgcagg     1260
cttcacatac cctttggagc ttcctcggtg gctggcaggg aggtgtccgc tgctagcgga     1320
gggggatgca aaggtcgttg tcctggggga aacggtcgca ctcaagcatg tcgggccagg     1380
ggaagccgaa ggcggacatg accggggcgc agcggtcctt cacctgcacg cagagcgagt     1440
ggcatggctg gatggtctcg tctaggtcat cgaggcagac gggggcgaag agcgagcaca     1500
ggaacttctt ggtgtccggg tggcactgct tcatgaccag cgggatccaa gcgccggcct     1560
gctccagcac ctccttcatg gtctcgtggc ccagcaggtt gggcagccgc atgttctggt     1620
attcgatgcc gtggcacagc tgcaggttgg ccgggatggg cttgcaattg ctgcgcttgt     1680
aggagaagtc gggctggcca aagaggaaga gcccgcgcgc cgagcccagg cagcagtgcg     1740
aggcgaggaa gagcagcagc agcgagccag ggccctgcag catcgtgggc gcgcgacccc     1800
gaggggcag agggagcgga gccgggaag ggcgaggcgg ccggagttcg agcttgtccc     1860
gggcccgctc tcttcgctgg gtgcgactcg gggccccgaa aagctggcac cggcggctgg     1920
ggcgcggaga agcgggacac cgggaggaca cgcgggcgag cgctgcaagc ccgcgcgcag     1980
ctccgggggg ctccgacccg ggggagcaga atgagc                              2016
```

<210> 6521
<211> 4204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(4205)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (3676)...(1268)
<223> similar to gi31442 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6521
```
ttttttttt ttgcttttcc tcaacttctt taatctataa aaatttcatg cacacaacct       60
gataaaatac atcagagtca agacatccga tttaagtatt ttaggcatat ttaataaata      120
acttcagtaa atagcactgt aaaaagtgaa ctgttaaaac taaaggcact taaaacaaga      180
atgtgactag tgtgaaacaa gatgggcaac tcaaatggtg agaagtaaac atacagtggt      240
ctgttatggc actaactcaa agtaagactc gcgtaggtga gagctgttgc atagccacag      300
tataacttca catgttcatt aaaaaggcaa attgaccgct aaaacttcaa agaaaaagta      360
ctcataaaaa aagtcttacc ccaaaattgc aaacaaatac attaaaagat tagaagaggt      420
```

```
gatagaaagc accagacatt aaacaaaata aaaataataa aataaattca actcaaaagg      480
tccccattca gcaaatactt tgtaaagtat ggcctgtatg taaatagtgc taaatcaagg      540
actttttagc agaaaattgc tcggttcttt tatctaaggc ttgaatttgt aaagtgaagg      600
cataaaagtt accaaacatt aagtaactct taaaatggca cacaggtttt aaagctattg      660
gttttttcctt cctaactctc tgaattttttc ccatggcctt tgtagatcaa ctatttcaaa      720
cgtattttac accagcaact ctcaacatac ttgtctttca gatatgtcat cagtcatgtc      780
taacaggcaa atagcaaaat aacagattta aaacaatcct taactagcta gcaggacatt      840
tactttggat tctgcataac tgcaaactga catatttgta aagctaaaaa tcagttttaa      900
tacatgatta acagaaactc tcatcatgct cattactttta actattgccc tttcaatcgc      960
tatagaaata tcacttaatc caataagctt gatttcaata gtccaggaag aaaaggtcaa     1020
aaaggcacaa tgtgacctta gctgacaaga ataaccatcc tgtctcaagt cttttgtcag     1080
tccctggcat gaattacaac attattttca aaataataaa acattttaaa aattatacat     1140
attgtacatt ttcaaaacct gcacatgagt aaaaccatgg caatattgcc ctaaagctac     1200
ctaactgtga ctatggaaat tgctactttg cattcagtgt tgtgggattt gcacgggcag     1260
tactcatttt ccctcatact tcggattgac cacagttgtt acggcactct tataaatagg     1320
attttcaccc gtgtcccatt tggcattcat tttctccttt tcaaatttag caaactccct     1380
tctgtcatga attatcatta aaagcttcca tatcagcagt aatgcaaggc caataagaac     1440
aattccagca accacaccag ctacaattgg aatgatgtct ggaccagtgg gacactctgg     1500
attctccaca acatgaacca tgacctcgtt gttcccattc actgaatacg taaaatagaa     1560
ccaacagtcg tcaacatcct tctccttaca atgggacaca ggatcaggtt ggaccggctg     1620
gggtaatttg tcccgacttt ctaccttggt aatgttaaaa taggaacatt cctgtgtgca     1680
tgtgtctttc ttttctcctt tattgaaggc tctgcactga acacattctt tatgctcagc     1740
acagacacca aggcaggtct gacacatctc acacgtttgc ccttgaaact tcggatctgt     1800
acacttacag acaccacact cgcagatgcc ccggccattg cagatctgtc cgttgctggc     1860
ttcacaagta ctagtatcca aagaacagtc acatgcactg ccagtgtagt tggggttgca     1920
ctcacacaca cgacacttgc aaacaccatt tcctccacaa attaagccat tggatctatc     1980
acagttgaaa ttatcacact cgcagaattt gccagaataa atttcatttg tattatccct     2040
cttcctacaa acacactgtc cggcagacgg cactctccca tggttactgg cagatttctg     2100
gaactggttt tctttcctgg cagtaaagca tccaatgtct tcactgttaa cttcatctgt     2160
gctgcattca caatgtctac caacacgccc ttcattgcac ctgcacgcgc cacactcaaa     2220
tgtcccattt ccttcatgac acttgggact ttcagggatg ccttcgcttt ggcattcaca     2280
ttcacagatg tactgaagaa taacctctac ttcctccgta aagcccagag gcctaatttt     2340
aaagctgtca gaatcctttt ttggacactt atttgaagtt atgctaattt caaattgaac     2400
ctcatctcca atggaaatat tggaacattt tcttccattt tcccctgttc cattcacccc     2460
gttcttgcca gtaagattgg taacttatgg ttactccttc tgacaatttg ccgttttcca     2520
aaatgacttc tgaggaaagg gaattgtatg catcaatgat caactgaatt acattgctag     2580
aatttgcaga taatgttcct actgctgact tagggatcaa gttttttcagc tccttgtaaa     2640
caggctgaaa ttcttcagta actgcaaaaa ttgtctgaat attatttttca ctcagtttct     2700
ggacaaggtg agcaatagaa ggataatcat aataatggct cattgtgtac atattatttt     2760
ccaggtgaca ttgtccatca tttggtaaaa caatgccacc aagtttccca tctccagcaa     2820
agtgaaaccc ggcatctgtg aaaacacca gcagccgtgt aacattcctc cagccaatca     2880
gtgatccgca aactgcaact tgcatgatgg catcgaaacc accttctgga gaatccaaat     2940
ttccagatat gcgctgtttt ccaacaagtt cattaaatac ttctcctttta ttagtaagac     3000
tgagcacatt tttgtagcta aatgggctgg tgcagttctg ttcacttgtg caagggttcc     3060
tgagcttagc tggtgttgtg ctaatgtaag gcatcacagt cttttccaca aatgagccaa     3120
atccaattct gaagtccgaa gtaatcctcc tcatttcatt catcagatct gttccaagac     3180
tttttacatt ctccaaatcg tctttcattg agtaagacag gtcccataag gtagtagagg     3240
tcaatgggat agtcttcagc tctcttgaat tttaatgtaa atgtctgtgg ctcccctgat     3300
cttaatcgca aaaccaactg ctgtggttgg atctgagtaa tatcctctgg cttgagcttc     3360
tctgctgttc cttttgctacg gttggttaca tttttatttt tctttatatc tttggagcct     3420
ctgggatttt ctatgtcatc tggagggcaa cccttctttt ttaaggcttc taaatcatca     3480
catcgtgcag aagtaggcat tccttcctgt aaaaatgttg aatttgtgca ccacccacaa     3540
tttggccctg cttgtataca ttctccacat gatttggcat ttgctttttaa acatctattt     3600
tcatctgttt gagcaaacac acagcaaact gaactgatca gtccaatcca gaaaattggt     3660
tgtaaattca tatcaggcag cagctatcct ccaactcctc gaacgagaga atgagagaaa     3720
catgcaggct gctttatagg gtagatgtgg aaaccaacgc tctggaagta cagtactctg     3780
acaaaggtca cacagaaatt cagtggcaga cccggcactg acacccaggt ttcctgtctc     3840
```

5166

```
ccaatcgaga agcctttagt acatcaaact gcttctctga tcaggtatct gaaaataaat    3900
taccacaaag aaatgtgacc aatgaagtct ttctgtcttt aactcaaaca tgccaatcac    3960
tggaaaaacc cagaaatacc tatgtcactc acaaaaatgc ctctcaaagg aattagaagt    4020
tcagagaaga aactggggaa ggtaaatgct tttctagatt cctcttcctc cacccccct     4080
tgactattaa aagtgttccc aggtcctcct tcagcccgtt tttcactcca caccctcctt    4140
tggtgtttgc atgcacagcc tatagcttca accagcaata gcgtngnntt gtcaaattac    4200
gaaa                                                                 4204
```

<210> 6522
<211> 910
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (878)...(263)
<223> similar to gi1196436 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6522
```
tttttttttt ttctaatcca acagttattt tattaggatg tcagccctgg gtccagagtg      60
agagataggg acaggggaca gcccagcgag gctgggtcgg gggtcacccc aggatgttcc     120
aaccacaggg gcagcatctc ctccactcca catgctggcc aagggcacag agctgccgta     180
tcgcctgcca aggggggtggc tcaatgctgc tgccctggtc ctgtatgggc ccggggtgcc     240
gagaacagac agcaagcctc aggcgccggt cctttgagct ttcttgattt cctcagagag     300
cgcctccttc agctctgcgt aggcctggtc caggctgtcg ttaatgatga ccacatcaaa     360
caggccgggc tccttgctgc tctccatgtc ggcctgggca gcagccagcc gcttcaccag     420
gctctcctcg gtttcagtgt tgcgctgccg cagccgctgc tccagcacgt gcagtgaagg     480
cggctgcaca gagatgtaga tgggccgcag atcggtggcc ttgatgttcc gcacaccctg     540
caggtccacg tccagcacac agatgcggtt catggcctgc acggcctgca ccgccacctt     600
gctcgtgcca tacaggttcc ccgagaactc ggcatgctcg atgaagtcgc cggctgctat     660
gtcacgctgc atcacctccc tggttacaaa gtagtaatct ttgccgttct cctcgccggg     720
cctcgggttc ctcgtggtat ccctccacga gagccctgga ctcacgggac acgctgaagc     780
caaagatgcc gctgtgctcc tggagcagcc tcttcagcag ggtgctcttc ccagctcccg     840
aaggcccgct cagcaccaca ggcctggggc ccgacatgcc gtccggtggg gcccggccca     900
gggcggccgc                                                           910
```

<210> 6523
<211> 1330
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (319)...(1191)
<223> similar to gi4521233 in the genepept database release 114,

<400> 6523
```
tttgtttttc cccactccct gccttcccta caattgtttc tttcacctgt ccctcgccta      60
ctatcggctg cccttgcttt ctctgtgcct gtttataacc tactgctccc ctccctacct     120
taccttactc tttcttcttc cccttacctc tcgctgcccc tatccctgcc ttgcccttcc     180
ctctctttct ctcctcccct tcttcccctc acctctcggt ccctattgcc ttctctactg     240
gtctcctccc ctctctttct ctccccttct ccttccgtcc cctctccctt tctatctccc     300
tcctcctgct ctctttgagt ggctacagca aaccaaacag cccagcagcc cagcagccca     360
gccatgcggc gcctcacagt cgatgacttt gaaatcgggc gtcccctggg caaggggaaa     420
tttgggaatg tgtacctggc tcggctcaag gaaagccatt tcattgtggc cctgaaggtt     480
ctcttcaagt cgcagataga gaaggaagga ctggagcacc agctgcgccg ggaaattgag     540
atccaggctc atctacaaca ccccaatatc ctgcgcctgt ataactattt ccatgatgca     600
cgccgggtgt acctgattct ggaatatgct ccaggggtg agctctacaa ggagctgcag     660
aaaagcgaga aattagatga acagcgcaca gccacgataa tagaggagtt ggcagatgcc     720
ctgacctact gccatgacaa gaaagtgatt cacagagata ttaagccaga gaacctgctg     780
ctggggttca ggggtgaggt gaagattgca gattttggct ggtctgtgca cacccccctc     840
cctgaggagg aagacaatgt gtgggacact ggactacttg ccgccagaaa tgattgaggg     900
gagaacatat gatgaaaagg tggatttgtg gtgcattgga gtgctctgct atgagctgct     960
ggtgggatat ccacccttg agagcgcctc ccacagtgag acttacagac gcatcctcaa    1020
ggtagatgtg aggtttccac tatcaatgcc tctgggggcc cgggacttga tttccaggct    1080
tctcagatac cagcccttgg agagactgcc cctggcccag atcctgaagc acccctgggt    1140
tcaggcccac tcccgaaggg tgctgcctcc ctgtgctcag atggcttcct gagccctgtc    1200
tgcctctgtt ccctttgtgt gtgttcaggg agctctcact ggctctgcca cctcatttgt    1260
ctttattttt ttctctttta agatgtaaga tgctaattaa taaaagctga atcacttcat    1320
accaaaaaaa                                                           1330
```

<210> 6524
<211> 5115
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (93)...(3614)
<223> similar to gi2662165 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6524
```
aagacaatgg gaagcccccg tcctccgccc cgtcccggcc cagacccccg cggaggaagc      60
ggagagagtc cacctcggca gaagaggaca tcattgatgg atttgccatg accagctttg     120
tcacttttga agcgctggag aaagatgtag cacttaagcc tcaggaacgt gtggagaaac     180
gccagacgcc cctgaccaag aagaaacgag aagcacttac caatggcttg tcctttcatt     240
caaagaagag cagactcagc cacccacacc actacagctc agatcgagaa aatgaccgca     300
atctctgcca gcaccttggg aagagaaaga aatgccgaa ggcactcaga cagctcaagc     360
caggacagaa cagctgcagg gacagtgaca gtgaaagtgc cagtggagaa tccaaggct     420
tccaccggag cagctctcgg gaaaggctca gtgatagttc agctccttcc agcttgggaa     480
```

```
caggctactt ctgtgacagt gacagtgacc aggaagagaa ggcatcagat gccagctctg    540
aaaaactctt caacactgtt attgtaaaca aagatccgga gttaggtgtt ggcacgctac    600
cagaacatga cagccaggat gcagggccga ttgtccccaa gatatcgggt ctagagagaa    660
gccaggagaa gagccaggac tgttgcaaag agccaatctt tgagcctgtg gtgcttaaag    720
acccctgccc tcaggtcgca cagccaatac cccagccgca gacggagccc caactccgag    780
ctccttctcc ggaccctgac ttggtgcagc gcacagaggc cccacctcaa cccccacctc    840
tgagtacaca gccaccacag ggccctcctg aggcccagct ccagcctgcc ccgcagcctc    900
aggtgcagag gccacccagg ccacagtccc caCccagct gctccatcag aacctcccac    960
ctgtgcaggc ccacccctct gctcagagcc tctcccagcc attgtcagcc tacaacagca   1020
gtagcttaag cctcaacagt ttaagcagca gcagaagcag cactccagcg aagactcagc   1080
ccgccccacc tcacatctcc caccacccct ctgcctcccc gttccccctc tccctgccca   1140
accacagccc cctgcacagc ttcacaccca ccctccagcc ccccgcacac tcacatcacc   1200
ccaatatgtt tgcccctccc actgctctgc ctcctccacc accactgaca tcaggaagtc   1260
tgcaggtggc cggacacccg gccgggagca cttactcaga gcaagacatc ttgcgacagg   1320
aactgaacac tcgttttttg gcctctcaga gtgctgaccg cggggcttcc ctgggccctc   1380
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acacgcacca gcacaccttc acgccgttcc cccacgccat cccacccacc gccatcatgc   1500
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5169

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5171

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<220>
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<223> n = a,t,c or g

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5172

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agatggagga cacgagcctg ctgccgcatc ccatcattgt cagtatcaga agcaaggtgg   1500
ccttccagtt cattgagctc cgggaccgag acagcctggt ggaggcgctg cttgcgaggt   1560
tgaagcaggt ccacgccaac caccccgtgc actacgacac ctctgcggat gatgacatgg   1620
cttcactcgt gtttcattca acaaggcatg tgccagtgac cacagatttg gggatcctga   1680
aataatgtct tctcaaaata gcgaggagag tgagaaagag aagagcccgc tgatgcaccc   1740
cgatgnccct ggtcaccgcc ttccagcagt caggcagcca gagccctgac tcccgaatgt   1800
ccagagaaca gataaaaata agcctgtgga atgaccactt gtgggaatac ggcagaaccg   1860
tgtgtatgtt tcgcacagag aagattcgga agctcgtagc catgggcatc cctgaatctt   1920
tgcgagggag actctggctt ctcttctcag atgcggtgac ggatcttgcc tcacaccctg   1980
gttactacgg gaatctggtg gaggagtccc tggggaaatg ctgcctggta accgaggaga   2040
tagaacgaga cctgcaccgc tccctgccag agcacccgc cttccagaac gaaacgggaa   2100
ttgctgcttt gaggagagtc ttgacggcct atgcccaccg gaaccccaag attggatact   2160
gccagtccat gaacatcctg acctccgtgc tgctgctgta caccaaggag gaggaagcct   2220
tctggctgtt ggttgctgtg tgtgagcgga tgctgcccga ttacttcaac caccgagtga   2280
tcggggcaca agttgaccag tctgtcttcg aggagctcat caagggtcat ctcccagagc   2340
tggcagagca catgaacgac ctctcagccc tggcgtccgt ctctctctcg tggttcctga   2400
ccctgttcct cagcatcatg cctctagaga gtgcggtgaa tgtggtagac tgcttcttct   2460
atgatggcat caaagccatc ttccagctgg gactggctgt gcttgaggcc aatgctgagg   2520
acctgtgcag cagcaaggat gatggccagg ccttgatgat cctcagcagg tttctagatc   2580
acattaagaa tgaggacagc ccaggggcccc cagttggcag ccaccatgcc ttttttctccg   2640
acgaccagga gccctaccct gtgactgata tttcggacct gatccgggat tcctatgaga   2700
aatttggaga ccagtctgtg gagcagatcg agcacctacg ttacaagcac aggatcaggg   2760
tcctccaagg ccacgaggac accacaaagc agaacgtgct tcgagtcgtt atcccggaag   2820
tctcaattct tcctgaagac ctagaggagc tctacgactt attcaagaga gaacatatga   2880
tgagctgtta ctgggagcag cccaggccca tggcctcacg ccacgacccc agccggccct   2940
atgctgagca gtaccgcata gacgcccggc agtttgcaca cctgtttcag ctagtctcgc   3000
cctggacctg cggggcccac acggagatcc tcgccgaaag gacgttcagg ctcttggatg   3060
acaacatgga ccagctcatc gagttcaaag cgtttgtgag ctgcctcgat attatgtata   3120
atggagaaat gaatgagaag attaaactat tatacaggct tcatatccct ccagcactca   3180
ctgaaaatga ccgagacagc cagtcgccgt tgaggaatcc tctgttgtca acatcgagac   3240
ccctggtttt cgggaaaccc aatggtgatg cagttgatta tcagaaacag ctgaagcaga   3300
tgattaagga tttagccaaa gaaaaagata aaactgagaa agaattgccc aaaatgagcc   3360
agagagaatt tatccagttc tgtaaaactc tgtacagtat gttccatgaa gatccagaag   3420
aaaatgattt gtatcaagcc atcgccacag tcaccacact gctgctgcag atcggggagg   3480
tggggcagcg aggcagcagc tctggaagct gctcccagga gtgtgggggag gagctgcggg   3540
```

5174

```
cttcagctcc ttctcctgag gactcggttt ttgcagacac tgggaagacg ccccaggact      3600
cccaggcatt tccagaggcg gcagaaaggg actggactgt ctcccttgaa catattttag      3660
cttcacttct gactgaacag tcattagtca actttttga aaagccactg gacatgaaat      3720
ccaaacttga aaatgccaag atcaatcagt acaatctcaa aactttgaa atgagccacc      3780
aatcacaatc tgaacttaag ctgagtaact tgtagcaaga cagcagctgc tatgcacact      3840
ggagtccacc ataccaaagc acgaaccaga ctgtttcttg gggtcagccc taaaccgaga      3900
tttcagtcta ccttaccaat ggggcatctg gctaaacaac ctgacaaact gtggccaggg      3960
gaaccgacac aaccctcaag catttctatg tattgagaat tgtcagtgcc ctaaggtatc      4020
cattggttcc cttgatgcca acttacaatt tttaccggat ttgctgaaat gggcacttct      4080
gctgtgatgc tagtgttgat tttgctctca gatgaacaca atgtctcata ctaaccaaga      4140
agcaagaaaa gccccatgct ttcattttc acttggagtg acaatgggag aggtcaggaa      4200
tcaagttcac tttcaagatc taagggagtc cactatctgt gcaattgtat ttggcttttt      4260
tttgcactgt ttcaatgctg gtaattgaaa ccatttaat atatttggtt gtattcactt      4320
tatatgtcct tccaaaaatg ttgttgtgta cataccatgc tttcaatgtt ggcttccaag      4380
tttttaata agaaactttt tgtaaaaaaa aaa                                    4413
```

```
        <400> 6528
caaaagggta gagtttattc agtttcttta aaagcaaata tctattatcc agatagtgaa        60
caaagaaacc cccagaaagg gtgttcctgc ctgaagttta ccttttattg aacaggcagt       120
tggacagaca gcattgtaat caggacattt tgagggctca gacttggtgg agatgtcttt       180
atacccctca gatcacagag tctaggagga aagagatgga aaagactgaa aatcagtgag       240
tccattccca aaagctctgt attgttttct atagcaaata agacaagctc cgaagaattc       300
tttgtatata cagatggtga aggtaggtga ttcagaactg gggtttattt tttccctcat       360
ggctttcaac aatcttcctg tcattcgtca gacgggggca tgctggctgc ggtggttcct       420
ggggtgctgc tctcctcaca cttccctgta ctgcggatgt gtgtatttgt ttggcgtatc       480
aggttttcat gacagagcat gcaaggattg ttgtaggttt ggccatcgtc accacagaca       540
ggctttaaat cctttggaca aagatagcct atcctgggca atactcggta gtctttgcac       600
atctcagaat ccagagaact gaaagagtct gggctgtctt cctcttgaga aagctctaac       660
atgggatggc ttttcttgaa gctttgccct ttccaaagct tctgttagaa agacagctct       720
gcacatgtag cacttgtttg tatagaactt tccatcagca ccgtgcactg ggtcattctc       780
tctagggcag atgagttcat tgttccttat atagtttcga aattcactgc actcatcctt       840
tgcattattt gagggcttgc tacttgattt ctcttcatct ttctttttttc tttcattagc       900
ttctcgatca aagatgctct gacacatagc acatttattg atgtgcatct tgccatatgg       960
gccttcaacc agggttattt tctctggtgc agataagctt tccatttctc tgcatgcttc      1020
gaaattcacg acacagatcc tctttgtcat tgctcctttc tcctgtattg ctcctttctc      1080
ctgtattgct cctgtcttca tcctcttttct ttttttttttc agctgcttcc ctttccagtt      1140
tttccttaca catagtacac ttattaccat gtgtcttgcc atctggaccc cggacagggt      1200
cactttctcg agtgcagata agttttccat ttttcatttg gcttctaaac tcatcacatg      1260
tatccttccc tgattctgat ccagtcccat ttgatctgga gcgagaatac tcattttttc      1320
```
```
                                     5175
```

```
tctctgcttc tcttccaat tttgctttac acatggtaca ctgattgttg tacgatttgc    1380
catcagcatc acgtacagga tcactctccc gagtacagct gagtcttcca ttttcattt    1440
gttcccgata ctcagcacat tcgtcctgag tgtttcctcc tccaccacca ctggaaccat    1500
gtcctgcagc atttctctga tcttcctctt cttcctctt tcttcctca ttttcttct     1560
ggaagactgc cttacacatg gcacacttgt tgccatgggt cttgccatct gggccacgca    1620
caggatcatt ttctcttgtg cagaaaagtt ttccattttg caaaagtctc cgaaattcat    1680
cgcatgtctc cttttcagct tctcttttga cttttgctct gggttcagct ctttcttttt    1740
cttttgcttc ttgctggaag aaggcttcac acatggagca ggtgttgccg tggattttcc    1800
catctagacc ctcaatagga tcattctctc tggtacaggg gagtcgtcca ttcctcacat    1860
aatgacgata ttcactgcac agctcctgaa ctgcttctct cttaactttt tcagcctcaa    1920
ctttcccttt ttcttcttta tcattttct tctcttcttc ttcaagtttg aacacactgg     1980
cacacatggc acacttgttt ccatgcattt tgccatctgg tccacggaca ggattatgct    2040
ccctggtgca tataagtgtt ccattcctca cttggtcccg aaattcactg cagatttcct    2100
ttgcagcttc tcttttagcc tttgctcttg ctctttcttc ttgttgaaag aaggcctcac    2160
acatggagca ggtgttgcca tgcatttttc catctgggcc ctggatgggg tcattctctc    2220
tggtgcaaaa aagccgtccg tttttcctgg atttgcggta ttcactacac aactcctcaa    2280
aggaagctcg tactcttaga ttgtcttttg tttcttgatt taccttcctt cttttcttt     2340
tcttcttctt ctgcttggaa gaagacctca cacatggagc aggtgttgcc atgcactttc    2400
ccatctgggc cctggatagg atcgttctct ctggtgcaag caagttttcc gttcctcaca    2460
agctttcgat attcactgca aagctctgca tatgaggttg cttttccaga ttctcttttg    2520
tttctagctc gtgcttcagc cttttttctt tcttcatttt ctgcttggaa gtaggcttga    2580
cacatggaac acaagttgcc atgcattttc ccatctggac cacgaatagg gtcattttct    2640
ctggtacaga aaagtattcc attctttgcc tgattttgat attgactgca gagtttcaca    2700
atttctcttt taactttagt tttttcttca gcttttccca aattttgatc tgttttactg    2760
ttttcctctg aaaaacgctg cttgaaaatt tcagcacaca gggcacattt gttgccatgc    2820
atcctgccgt cagggccacg gactggatca ctctcccgtg tacaaaaaag ccttccattt    2880
ctcacttgtt tttcatattc cttgcaaaaa tccttttcag catttcgtcg aattctagtt    2940
tcaccctctc gcttggcatt ttcagcttct tttaaaaaca gctcagcaca cattgcacac    3000
ttattgccat gcgtcttccc atcaggacca agaacaggat cattttccct tgtgcatcca    3060
agtcttccat ctctaacaaa gggccgaaaa gcactgcata catcctgctc tggattactg    3120
ctcttacatt cccttcact ttttacacca atttgggacc cggttttcgc attctcagca    3180
cacagtgcac atctgttgtc atatgttttc ccatctgtgc cacaaacagc ttcataataa    3240
tcaggacaga taaaatcccc atctcttct cctttttaa aatcatcaca attcagctct    3300
gttggggcag tagccttggg agctcttgct aaatgcctgg ccctcttctg tgattttgct    3360
tcttttttcca gtatcatttt gcacgtggca catttattga tgaacattat tccatcaaga    3420
ctttgaaaaa atttcttatc ctggggacag aacagttttc catttttcat aaatgcctga    3480
aattcatggc acatttcctg atcttcattc ttactggcag catcttgtat gaggcaaaga    3540
gccaagggca gaagcactga cactgtggct atcttcatgt tgaagacgat gcaagtcgcc    3600
tacaggtc                                                            3608
```

<210> 6529
<211> 1047
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (978)...(176)
<223> similar to gi1330308 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6529
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tttttttttt ttccaaaagc cttgttttta tttatataga gtcctaacca cttcggtggt      60
aggaggagtg ggagaggctc cttttttcaat ccagggacct ccatgatgtt ggtttgttgt     120
taccaaacac acaggtaagt ggcatcacgg atctggtaaa ctaacgacaa tgtttagtct     180
ctctctgcta gagcaacaag gtgagcatca atctctgctt ctgtaagaat cctgaattta     240
ggattttcaa ctgtcactac tccaacttct atttctgaag gtttgaaatc aattgataga     300
acagtagaca ggcatgtaat tgcagtttcc actgtctgtt caaatgtcca atcaaatttc     360
ttcttcactt ttttttcaag gaagctggtt gactcagttt gtttaactcc cgctgcagtg     420
gctttaaacc cacagtagta acctgcagga tcacacttat atacctgagg gccttgctct     480
tcatctatac caattaaaat catacaacaa ccaagaggcc tcatttcagc attctgtgtg     540
tagacctgag aaatatcggc aattctttta cacagcatgt ccacaggaat ctcatagcca     600
tacttgtatt tccagttagc tgcctcatag cgtgccctct gtacctggga tctgctgtca     660
gctgtcattc cggtcatcac acaaccaatg ttttcagtta tcttgaataa gtgagtcact     720
gtgctggaat ccaataattt gtcaggtact ttcttctgtg tgacaattac tgcacagtct     780
ttccctctga cagctactga tgtaaggcca ccctggttaa tagccttaaa agcatattct     840
acttggtaga gccgaccctc gggtgaaaaa atggtaatgt ggcggtcaaa accggcgctg     900
gaaccacggg acatgttggt agaagcacta ctttaaacac aatccctggg ccccgtagct     960
cccgcaccag gcacacaagc acctcccgga agttgcagcg actgcttccg gggtaccagc    1020
cgcacgaaat cgtcgtccgg gaattcc                                         1047
```

<210> 6530
<211> 2548
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (300)...(917)
<223> similar to gi474388 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6530
```
cttcggcgtc gcgtcgctcc tgcgctggag ctctaggccg gcgtctctcc gcgagccgcg      60
ggtcaagtgc cagtggctaa gggtgcgcga gtagccgcca cccgttcggc gttggctctg     120
gcgtcggggt cgttgtgtcg tgacaaccgc tgcggtagcc gtttccgagg cagcagttgc     180
ggccgcttta gccctgagcg ggatctgcgg ctgcctgcga gtctctgctg tgccgaccct     240
tctcttcgcg gaccccacgc caagcagcga ccctgagccg acagccggag cgcccggcaa     300
tggcggcctc gacggcctcg caccggccca tcaaggggat cttgaagaac aagacctcta     360
cgacttcctc tatggaggcg tcggccgaac agcccgcgg gaaatgtcga cgaggagctg      420
agcaaaaaat cccagaagtg ggatgaaatg aacatcttgg cgacgtatca tccagcagac     480
aaagactatg gtttaatgaa aatagatgaa ccaagcactc cttaccatag tatgatgggg     540
gatgatgaag atgcctgtag tgacaccgag gccactgaag ccatggcgcc agacatctta     600
gccaggaaat tagctgcagc tgaaggcttg gagccaaagt atcggattca ggaacaagaa     660
agcagtggag aggaggatag tgacctctca cctgaagaac gagaaaaaaa gcgacaattt     720
gaaatgaaaa ggaagcttca ctacaatgaa ggactcaata tcaaactagc cagacaatta     780
atttcaaaag acctacatga tgatgatgaa gatgaagaaa tgttagagac tgcagatgga     840
gaaagcatga atacggaaga atcaaatcaa ggatctactc caagtgacca acagcaaaac     900
aaattacgaa gttcatagac gagatttgtt caacactgca attgtttgtt agatgtaaac     960
cctgtgacta tagtacgttg cttcttgttc ttcacaattc atgacttaag taccaaaatg    1020
```
```
                    5177
```

```
cataccagtt attatatatt gccaagaatt aaatgataaa cttagagact gattagactg    1080
aaaatgccta atcgatatat atattcttgt gcctagtact ttaccacaaa tacagtgtaa    1140
tatcatcagt ccaaaactgc attacttttg taaaaacact ggttaatttg tataagatat    1200
tatagagctt tttatgcttt agaagttaaa caatatcttt ggggggggaac taatttattt   1260
tcatcacttg aaatgtggta gctcttacaa agtttattga tttgtttttt taaaaatcaa    1320
aagccaattg aacaacagga tatatagact gataaatatt taggctgaat agtattttaa    1380
cacttgtctt caacttgatt tgtctgttta attgaaaaga attataagag ttactgttgc    1440
attttctgac ctactatttt taaaattcct gttgagtttc tttgtgttta caaggaaagg    1500
actgaacttt ttctcatcaa aactagcttt tttccccaca aataaattat caggttaaac    1560
tttcaccaat gtctgctctg tttttttgttt ttgggggggtt tttgtttgtt tttgtttttt   1620
aatgtttttg gtacactggg cagacttcag agcagttttt taaaaaaata aatattctaa    1680
tgtagctatc tcgccattcc ctttaaatac ctgtcttaac ctcctgcttt tctttcctac    1740
tcctttccac acatacgcac acaatcttct accttttaaa ggatcattaa gactgtcacc    1800
acattaggag ctctttctct cactcttctg tcatttgctg ctatgttgaa attcttattt    1860
tgaccatcaa tgcctatgaa ttcttctaat acgtgaagaa aatagtttga gtagcagcag    1920
tgctataggt gggaaataca gtttagctgc tgaatttcta tacctctctg atttacagat    1980
tgctaattaa atggctatta ttagtttgga ttaattcgac ttaagaaaac aactaactga    2040
gggttttttt tgtttgtttt ttgagggttt tctttgcatg agaattgtat gtaaccagtg    2100
atatgattat tcctgaatgt acagacagaa gtaagcctgg acattgttaa atagtccctg    2160
ctttaaggga ctacgataat gtgtactatg acaaacgtgc tttattcttc taacgcagta    2220
agaattaggt ggaattttt ccttcaacca agtgcaggaa agccctgtgt gtcttggttt     2280
agttatggtt tcatttctag ccatacaatt gatgaattgt gtacaacttt tgttagtacc    2340
aaaataatct gttatatgaa cagacttcta aaataacgtc tgtatatttt atatatagat    2400
acatatatga aagaaggctt ttattgaaca gcttatcttc cacttgcagg tttatggaaa    2460
cagcagtatt tgaaaataaa taaaaagtgg gagaattcct tgctgttaga agaatgtggc    2520
cattattttg atttttttgaa tgagatat                                      2548
```

<210> 6531
<211> 871
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(872)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (827)...(303)
<223> similar to gi3114824 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6531
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ttttttttt ttggcatttc aaaacgggct ttaaatactc atcagggtgc cacacaaagg     60
agctggggtg agaacttcgt acatgtgagt gtggggctgg ggtgccctga gagagaaaaa     120
ggggacccat ctgtcagggc agctggggtg ccccacaccc catttctggg actagggagc     180
agagtagaaa atttctctgg agggtcccag ggctaacctg ggagccagcc ctcttttcga     240
ggtagacaat cggggaaggg aacccangaa gtagctccca tggtggcaag tggcttcctc    300
aagtggtact gctgatagct tggggtagcc tggggccggt ggtgacatcc ttaggggcca    360
```

5178

```
gcttggcttg gggtcctcca gggaattggg ggcgcatttt cggaactgct ggggctgtgt    420
agcgagtgag gaggatgcca acgccctcaa tgagggccaa caggatgccc cccatcattg    480
ctgagcccac catggccagt gggccactgc gggcagccag cacagccccg gtcaatgctc    540
cactggtgat agagttccag ggatcctcct tgccccgaag ccgcaccagg ccacagtcga    600
tggtggagaa caggcccccc cacactgcga agctacctcc aatctggggg gctcggatcc    660
tcacagcatt ggcactacct ctcaaccggt gccgaattcc aacaggggca ttgcggaaac    720
ccttgatggc ctggaagact ccgccaccga tgacacccat agtgaaggct ccaccgcaat    780
catccacaat tcgccatggg cagggctccc gagcgtactc ctccatggcg ctggcacgaa    840
atcgtcggnc gggaaagcgg atngatggtc a                                    871
```

```
          <400> 6532
tttggttcca aggggtttaa ttggggaacc cccgggtttt tccccccccc ccctttttaa     60
aacccggccc cggaaattaa atttgggggc ccctaaaaaa aattttttact ttcccacccc    120
cgggtattaa aatttgtttt ttttaaaggg cccccccttt tttttttttt gattttataa    180
tagtttatat ttgcacacaa attctgccac attgttcagt accaccaaag taaaattctt    240
gaatctttca ttgaaaatga aaaacccatc tgtcacctgt tcccagtaaa aaactgattg    300
ttctatgaaa tcggctgttt tagtcagata ggaactgaag tttgaaagac agcctttcca    360
agttgccagg tcatcaaata atgaccattc taggaacatg gtaggaccaa agacaatgac·    420
aaggccaagc agaaggatta gcaaaaataa cttataaaag ctccaggaa tcttgctaat     480
gaatgtgcca gtgtcttgag gcaaagaaag tttatccaca tcgactagtt ttatgtcttc    540
ccactgactg gtatcaaagt tcttcattaa agggcttgca ggcaaattag agggaggtaa    600
aggagtttcc ttgattactt tgattttctc tctaaactcc tgcatctgtt gcagaaatac    660
aatgggttct gacacatctt tgaaagcctc agcaatgtta aaggccatcc gttgctcctg    720
caagatggtg ttgagtttgt tgatctctgg gtcatatgct tgcataacag caagtttcat    780
ggtctcaaag tcagacagaa tttcattctt cttttgatcc agtgtgtgtt gtaacttctc    840
aaaaaattcc ttcactttat ctgaatcttt agtcagtaac tgtagggatt tcctcttact    900
agtttccaag gtatccaagc gagaaagagc atctccccga cgccaggtct caaagctctg    960
gaagagggac tcaaaggcat ccctttcctg agcataggca tcttcaatag aacagaagac   1020
atgtttggtg tgctccccac gagtagccac agatccccac aaatccagct gcatatcagt   1080
ccaggccaga aaatgttgag aggctgcccc aaagtgtcct ttgcatactg gcattttggg   1140
agagatcttg atcttgttat acttttccac aatacccttc agggagtaat taacctgcag   1200
gggtattaat tcccagtagc tgaaagtttt cttacggcat gtaggacact tgaatggaac   1260
tggtctccac aaggaattcc gcacactccc ttctaagata ccttctaagc attttttgca   1320
gaagttgtgg gagcaaggca aaacccgtgg atcatcaaac agactacaac aaatagggca   1380
```

5179

```
tgtgagatct tcttcaagca gctccatcac atcctctgtc tcctacaagc tgatgtattt    1440
ggcaggata ctatttccca gggcaaagca ggtctttttt ttcacgtttt gactaacgaa     1500
ctagaggctn ctgcaaagaa agaagaaaaa gaacagtatt aacgcattta tttgcacagc    1560
accccaatct tgaccctcaa ttttttcaat cgcccccaca aataaagccc ggctgtttag    1620
acctggtgaa ccgccaggag cctggagctc tttgtattaa gcagcttctc ggttagggcg    1680
ccctcccccg gcgccatgca accaaacgct ggcggcgcgc tgtaacataa ggcccacacc    1740
cgtcttttct tttctagggg atgtggagac gctggtagcg gggccaggaa ggctccggac    1800
ggagcaggtt ttctggacca cagacacact gccccggcgc cctccgcagg ccgctcctcc    1860
ccaggcccat gacagtgccc cgctggtttc tgccgcgctg ccggactgga gctcagacgg    1920
ccttcgccag cccccccaac ccacgcagat ccctgctgac ctgggcaact ccccacccc    1980
gctgaaggtt cgaggaccac cccgctttcc cgagaggagc cggacgcgg gtacttatct      2040
ccgacctccg gctagtggga aaggccgcgc gcccgcccgt cctccaacta cagggaccgc    2100
acggtacgcg ccaagcacag ccccaaaatg gactcgcgac gaaa                     2144
```

<210> 6533
<211> 1081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1082)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1076)...(0)
<223> similar to gi473949 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6533
```
ttttttttt ttctagacat accaaaccag accagaaaat agcctttaat tttacatgta      60
caaatgctgc tgtaaattcg taacagcgaa gaaaaatata tacgaaccgg gtttaaaagg    120
aaaagtaaaa aacaatccac agttgagcag ttgatgtgca aaatcatccc aggaatccaa    180
ctttctggtc tcttgggccc cnaggctttc tttcctggtg gcacaacact cctgccaagg    240
aggcatgcag taccttgccc acacgcttgg caagtctcca tcatctcgaa agatgctctc    300
tgggtcccag gcttgcccct ccccccactt tcctcaatgc acgtcacaac tcccccttgct  360
gggtcaccga caccaggcaa gctggccagc gagcaggcct cctcctgaag aggtatgcat    420
ccaccacatg ccgatagcca attttggcac agagtgacaa tggcaggggg gacattctcc    480
acactttagt cgtatgcagt cataagggtc atctgacaat tcaatggtcc ttcgacccct    540
cttcatcctc caaaactcga acccttggta tccttgtatt gaagagagca gcctttacag    600
caatggaaat ggcatcaaac aaatttccac cacattccca gaaagcagca catcccacat    660
agagaaccca acaagtgctc ccggaggact taatgcagag ggtctttaag tcggacactg    720
ctttttaattg ttaaatatcc ggatagaggg tgttagcgat ctcggtgccc aaggtcatca   780
cctcctctac cttcaaattg caggggtagc actggctgaa cagtcaacaa agaactccaa    840
gtagccttca tttggtttct ccagcttcgg cgtccccatt tctgcctttc actcccacca    900
agatgtctgt gtgaacccag cttgacctg gcggacccac tagtgttgga caccacatca    960
gtttaccact tcgacacatc ggtagtccct cacagccacg gccatccaca cggaggtctt   1020
cctggacgcc atgcacgatg tacaccttct ccgcctcgct cagcgtcacg gacgccatgc  1080
t                                                                    1081
```

5180

<210> 6534
<211> 3294
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2284)...(905)
<223> similar to gi3043688 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6534
tttttttttt ttaataaaag tacttatggt gtcaatgcca aagcaacaaa aaattcccct   60
ttttccttca ctattgacag cttcagtttc tgtacttact gtgtcatcct atccattccc   120
ttccctgagc ctgggactgc ttttccaggg gaaactagga gggaagggag gagtcctccc   180
aaagttaccc tttaagcttg ataattagct ccatagccat gctaaagcat gactgtagat   240
ccccaagtcc ctgacacatt ttcttctaag aaactggtta gccaagaaag taaagacgta   300
agccctgaag atggcaaaag gtgtcataat ctcccaaagt catctgtata gatgcttcat   360
ttaacccttt ttcttttgca gacaaagggt taaaaatctc ttctttctac ctatatcttt   420
aaagagggat tgacaagccc aaatttcctt ttatgaaaag acccaaggtt tctggccaac   480
aattcacttt tttcagtctc ttaggtcctc ttgcatgcct gagaatattg agtattcgga   540
atctcctacc agcccttggt aaatgaccct accaggtgga atagtttgag ctttatctgc   600
tcttttttaa tgggatagag gggaaggcaa cacgtcttat tttatcaaaa attgcaaagc   660
tacacgctct ttgtggagaa gcaccaaaag gaaaacctta gtttggaagg attcattgta   720
aataaaaata gtaactcagc cctccattca gggaggagaa aggcatttta aagctagtat   780
attgaaggtt tccccccttga cttcagtgtt gaatggctct tgcaaggact tcttgaagga   840
tttttttctc actagccagt gtttggccga caggttgcac ctctgcctga gaagatgcca   900
ggttaaaccc cttcacatgg gtgctccatt gccgccatgg gcttttttgtc agggataagg   960
gtgcagccag ccagcatgtc cagagaggcc aagatagagt catacaggcg atctgcgtgg   1020
ctctccagct caccagactg ctttgcgatc ctcccaagga catcctctaa aactgggggtg   1080
ttctccaaca ggcactgaag aagaatctcc cccttctgta agacactctc cgtcagagac   1140
tgatgttcat ctatatcttt cttaaattgc cggtaaagct gcagagaaga ctttgagact   1200
tgtaagattg gacctggctg gagtcccgtg gtcagtaaca tctgacaaca ttatacagcc   1260
agcagatcag ctcttccagc tgacaggcaa aatgtcttca gcacattgca ccagtgattc   1320
ttttccctgt tctcctcctt tcctgggaag ctgcccttca acatctgggt ctgagaatgg   1380
ccaccggtcc aacctagctg gcaaggaggg gcgtgttttc agcagtccag aggagacccc   1440
gagggcctgg ctgctcccca gactgccttc ccctgcggag tcgtgggcac ggacgaagga   1500
gcgcaggaaa cagggattct ggccctcagg atccccagat ccttggaggg cagctccagg   1560
gggaagctgg ctttggctgg agcttgaagg gaaggaagct ggcccatcac tgtctgacac   1620
ttccaagggg ctctgccctt tgatatcccc agtgggcagg gtaaccaagg tagaaatgga   1680
tcctagatac gaaaccaggc tagaaacctg tgtcagccga gcggggaggg caagatactc   1740
gtcatcactt tccacttcct cttctgattt ccacctagac tctgtgcagg tagggcgccg   1800
ggcactctgg ctggtcctct tctccctctc tggcctgggc gagggccacc ctctgtcccg   1860
tgtccttagc tggggagagc ccatatcaag gtgcttgcct atagtcagcc ggtccttcgc   1920
accctcagg gctggctctc tgcgctccca acgagcatcc ctactgcctg gggctctggg   1980
ggtagatgca agttggctcc aagatgccaa gcccatgcca ccctgtttct ggggtactct   2040
ggagggccac tgcttaaggc ttggctctct gggcccagaa aatggcaggg cagtggcctc   2100
tgctggtggg cagttggggg agacattagt aggtgatttg agggtgcttg ctggagagac   2160
agagaagcta tccaggtcta ccccggagtc ctgcaggaca gggtcagctg gcacacggct   2220

```
atcaaggtgc tttgggagct gaggcccggg cctcagtggg taagtatagt caagcagatc    2280
ttcatactct ttatttgggt tccagagagg ggagtggcgg tcgggtgatg gaggcaggga    2340
atctggcagc acacaggccc agtactcagc ctggaaggag aggcgtctcc tgcctagccc    2400
agaagcatca cccccagaga acacaggctg tggtgaccac tggggccgag gtcctagccc    2460
caccacagag gaaggttcct gggggacgac cggctccagg gaggaggaga ccttggccag    2520
agaaccacca cgaggctccg ccctctcctg gtgaccctgg agactgctgc ctgtggagga    2580
agcagagatg ctgcagctgg aaggctgagc tgcggaacct gggctcagca cggacttcca    2640
ctgtgacagg caagagagac ctgagctgtg aggctgctgg ctgaggtcca gtgcctgggg    2700
caaatctgct agggatggat catcttcggt atcagcatca tgtcctgagc aaatagttgt    2760
tctgggaagg ctcagagtct gagggaactc ctcggaggaa gaaagcttgg tcttctccac    2820
ctggctttcc ccggagagca gaaggtctcc agaccccatg gtggcaggag gcaggccact    2880
gagtgcaggc tcagacctct cagctacggg ctctctgttg gcatcactgg cctgtggctg    2940
gtgggctcta gaggggccgc cagggtcagt cccaatccag caagtagggg caggtatccc    3000
ttctgccccc catacagggg agatgagccc tccctcagct tccaggcgtg ggggctgctc    3060
cccactcatg ggccctggga tgtccagctc ccgctccctg cagctccctc tcccatagga    3120
ctgggccttt gtgtcttcag atgcttccgc ttctgccttt tcttcaccca gggccattga    3180
gactccctac ctaggtcagg gttctgctga agacttcagc ttcctaccgc accgcgaacg    3240
cttcgcacgt ccggagcggt ctcagcagcc ccatgcgctg gccccgagac gaaa          3294
```

<210> 6535
<211> 1875
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (231)...(1812)
<223> similar to gi1491706 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6535
```
tcaggctgcc tgatctgccc agctttccag ctttcctctg gattccggcc tctggtcatc      60
cctccccacc ctctctccaa ggccctctcc tggtctccct tcttctagaa ccccttcctc     120
cacctccctc tctgcagaac ttctcctttta cccccccaccc cccaccactg cccccttttcc    180
ttttctgacc tccttttgga gggctcagcg ctgcccagac cataggagag atgtgggagg     240
ctcagttcct gggcttgctg tttctgcagc cgctttgggt ggctccagtg aagcctctcc     300
agccaggggc tgaggtcccg gtggtgtggg cccaggaggg ggctcctgcc cagctcccct     360
gcagccccac aatccccctc caggatctca gccttctgcg aagagcaggg gtcacttggc     420
agcatcagcc agacagtggc ccgcccgctg ccgcccccgg ccatcccctg gccccccggcc    480
ctcacccggc ggcgccctcc tcctgggggc ccaggccccg ccgctacacg gtgctgagcg     540
tgggtcccgg aggcctgcgc agcgggaggc tgcccctgca gccccgcgtc cagctggatg     600
agcgcggccg gcagcgcggg gacttctcgc tatggctgcg cccagcccgg cgcgcggacg     660
ccggcgagta ccgcgccgcg gtgcacctca gggaccgcgc cctctcctgc cgcctccgtc     720
tgcgcctggg ccaggcctcg atgactgcca gcccccccagg atctctcaga gcctccgact    780
gggtcatttt gaactgctcc ttcagccgcc ctgaccgccc agcctctgtg cattggttcc     840
ggaaccgggg ccagggccga gtccctgtcc gggagtcccc ccatcaccac ttagcggaaa     900
gcttcctctt cctgccccaa gtcagcccca tggactctgg gccctgggc tgcatcctca      960
cctacagaga tggcttcaac gtctccatca tgtataacct cactgttctg ggtctggagc    1020
ccccaactcc cttgacagtg tacgctggag caggttccag ggtggggctg ccctgccgcc    1080
tgcctgctgg tgtggggacc cggtctttcc tcactgccaa gtggactcct cctggggggag   1140
```
```

                                         5182
```

```
gccctgacct cctggtgact ggagacaatg gcgactttac ccttcgacta gaggatgtga      1200
gccaggccca ggctgggacc tacacctgcc atatccatct gcaggaacag cagctcaatg      1260
ccactgtcac attggcaatc atcacagtga ctcccaaatc ctttgggtca cctggatccc      1320
tggggaagct gctttgtgag gtgactccag tatctggaca agaacgcttt gtgtggagct      1380
ctctggacac cccatcccag aggagtttct caggaccttg gctggaggca caggaggccc      1440
agctcctttc ccagccttgg caatgccagc tgtaccaggg ggagaggctt cttggagcag      1500
cagtgtactt cacagagctg tctagcccag gtgcccaacg ctctgggaga gccccaggtg      1560
ccctcccagc aggccacctc ctgctgtttc tcacccttgg tgtcctttct ctgctccttt      1620
tggtgactgg cacctttggc tttcaccttt ggagaagaca gtgccgaccc aagacgattt      1680
tctgccttag agcaagggat tcacaccttc gccaggctca gagcaagata gaggagctgg      1740
agcaagaacc ggagccggag ccggagccgg aaccggagcc cgagcccgag cccgagccgg      1800
agcagctctg acctggagct gaggcagcca gcagatctca gcagcccagt ccaaataaac      1860
gtcctgtcta gcagc                                                       1875
```

<210> 6536
<211> 1731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1732)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1539)...(141)
<223> similar to gi1514597 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6536
```
tttttttttt ttgctagcta tcataacttt attaaacaag aaaagccctg acgcgtaaat        60
aaaaaacacc tgagttctga tgaccccgcc ccgcccagtc ccgcccgccg aggtccgtgt       120
ccaagtcccg ngtttttcag gagctatgtt tctgccgctt ccaaaagcgc ttgacgtcgc       180
tgtgcccggc cggggtcacc accatgagcc gcttggccgg agtttctcga acacgagcac       240
gcccagcttc ggggcgtggg ccagcaagca gctcaaagtc cacttgcgac aggaactggt       300
tatacaggac accctcagtg aaccggagtc tgtccctttc cagctcccag agccggatct       360
ggtcggtgat ggtggggggc agcacaggtg tctgtttgag catcactggg tgggctcttg       420
tccttaggaa atggattatc tgctgggctg tgatgccact ggcgattgcc tgctgcacac       480
tctccccggg tcaccctcgc caaccaccat gttggggggaa cggataaagc atctcagaga       540
agagggcaat gagggcaatc tgcagctccg actccgtgta ggcatacagt cggtaattgg       600
tttccacgga caatgaaacc tggctgatgc acagtgcccc cagctccaga gacacctgat       660
gagagattga tggccaaggc ggtgtggggt agtaacgccg agatttcctc ttcctctgga       720
aaacaagccc aaactcacgc agatgttgca ggaagttcaa cagagaatca ctcatacctt       780
ccacagagta atccttgccc agagtagaga agctgagctg gaagaggaag gagagaatct       840
ctaccaggtc catgccccgg ctctgggctg tctgcaaata ctgcaacata aagtaccaga       900
gctgagccgg ggtgtccagc aacaggaact ggaagccagc ggaagtaatg cagggcggct       960
ctccaggttc agtactcttc atgagcccag cctggctgag gagctgagcc aagtcctggc      1020
tgacagctgc actgggggag cccaccatga agtgcaagac cacctcccat cgctcctcgg      1080
cgtacttgtc aagggaggga acgtcccggg catgcttgtc tggtcccagc tgacttgtgt      1140
```

                                        5183

```
catcagacca ggccttcccc ccacccagaa gggcaatgcg gaggttctgg cggaaaatgg    1200
ggttgaggat gaggccctgg agcccgcctg ggagcagctg ggtgtgccag atccggaggc    1260
cgctcagcag ccctgtactt tcctcctgag ccttgctgaa ttccttcttt acccacagag    1320
ctacagcagc ctgtggcaaa ggctgctcca gaaagagcat ccgcatcacc cagttcttag    1380
ccaaggatgg gagctccctg aagacagcca gacatgtggc agggtgccca tacaatcggt    1440
ccaatacccc agggctcagg ccccctaaga attcctgcag attcctgcat tgtaggtgta    1500
ctcggttcag tccccttgaa ggggtgctct ccatcaccac tctgtcgatc ctcctcgcgc    1560
accccaagtc tcgggccgtc gcttaatcgg agccaaagtc tcgcattggc tcctggagat    1620
tgagggaaag atggtgaaaa aatgcgagga aaagatgggg aaagcaaaga aagatttcac    1680
aggcaagagc ccagaatgga gaattcagaa gagaagggag gtaaggggag g             1731
```

```
          <400> 6537
acctgtctgg tagcagccat gaggcgcttg gtttcagtgt cctcgcgggc cagcgacggg      60
caggacgccc cgttcgccta gcgcgtgctc aggagttggt gtcctgcctg cgctcaggat     120
gagggggaat ctggccctgg tgggcgttct aatcagcctg gccttcctgt cactgctgcc     180
atctggacat cctcagccgg ctggcgatga cgcctgctct gtgcagatcc tcgtccctgg     240
cctcaaaggg gatgcgggag agaagggaga caaaggcgcc cccggacggc ctggaagagt     300
cggccccacg ggagaaaaag gagacatggg ggacaaagga cagaaaggca gtgtgggtcg     360
tcatggaaaa attggtccca ttggctctaa aggtgagaaa ggagattccg gtgacatagg     420
accccctggt cctaatggag aaccaggcct cccatgtgag tgcagccagc tgcgcaaggc     480
catcggggag atggacaacc aggtctctca gctgaccagc gagctcaagt tcatcaagaa     540
tgctgtcgcc ggtgtgcgcg agacggagag caagatctac ctgctggtga aggaggagaa     600
gcgctacgcg gacgcccagc tgtcctgcca gggccgcggg ggcacgctga gcatgcccaa     660
ggacgaggct gccaatggcc tgatggccgc atacctggcg caagccggcc tggcccgtgt     720
cttcatcggc atcaacgacc tggagaagga gggcgccttc gtgtactctg accactcccc     780
catgcggacc ttcaacaagt ggcgcagcgg tgagcccaac aatgcctacg acgaggagga     840
ctgcgtggag atggtggcct cgggcggctg gaacgacgtg gcctgccaca ccaccatgta     900
cttcatgtgt gagtttgaca aggagaacat gtgagcctca ggctggggct gcccattggg     960
ggccccacat gtccctgcag ggttggcagg gacagagccc agaccatggt gccagccagg    1020
gagctgtccc tctgtgaagg gtggaggctc actgagtaga gggctgttgt ctaaactgag    1080
aaaatggcct atgcttaaga ggaaaatgaa agtgttcctg gggtgctgtc tctgaagaag    1140
cagagtttca ttacctgtat tgtagcccca atgtcattat gtaattatta cccagaattg    1200
ctcttccata aagcttgtgc ctttgtccaa gctatacaat aaaatcttta agtagtgcag    1260
tagttaagtc caaatagtgg caatggggtc ttgaattact accttttaat ttctatatgg    1320
aaaagaactc actttgacca acacttctgt aaattacatt acaatatagg ttccttcaca    1380
cta                                                                  1383
```

<210> 6538
<211> 3750
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3651)...(714)
<223> similar to gi4510377 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6538
```
ataacaaatt ttcccattcc caaggtttta aaaaacgccc ccggcccaaa ctttaaaatc      60
ccccccata aagaaaaaaa tattatttt cctcccccg taaaacttgg gccccccaag      120
gattctttaa aaccgccccc cctttttttt tttttgaga tttaacattg tacatttat      180
taaatactgg actttattac aacaaattaa tttacttccg atagaagttt cattttaaaa      240
aatgtggttg tgttcaaatt cttaattgac acttgttttg gggtaaacat cctattttta      300
ctggtggtat catcaatcat tatgagcaga aagattaatt ttgtataaca gaacaaagga      360
atttctcaag tggtccaata ctctatatat ataaagggaa tatactccca aagagtgggc      420
atgaccacag cagagtatat gatcagagaa catattgctt ttatggtata tatatatata      480
tatatatc tctacatata acatcaagtc atgcacatta agtctttact acctactgaa      540
ggcttctacc ttacacatga aaattgttca tgtcccaggg tttggcatcc agccaaaatt      600
taaacaatga tgaagaatgg ctgtcaaact ggcttttcag accacccctg aaaagctgtc      660
agctgtaata tccatcctgg aatcgtggcg gaaagttcct gggagttgcc ttttcctgtg      720
ttttgatcaa gtctataata gctgacagta ctgcacagtc tctggattta gtgtcattcc      780
agtctacagg atgaggactt tcaatcttct cttgcagaag aatatctagt tcctttctta      840
attccttaac aagatgggca attcttgctg gagactgaaa tacaatccac tcatctacag      900
caatagtttc ctgatcgtta tccttctgga tggaaatgtc acctccaaaa aacaagagac      960
agtatgggga aacctctgtg cagtcataca agtatatact gcttgttctc atctttaggt     1020
gatagataag ccagttgtag tgaaagtctg tttgctccac attaacagat ttaggatgaa     1080
cagcaaccag gccatcggtt tttgtgtaaa cttttaccat ttttctttt ttacccaaat     1140
ttagtcgaat tttagcaact ttgggatata aaccagcaca gatgacagct ttaattatct     1200
tctcattatc tgaatttata ttagattctg gatctttagg atttctactg cttacaaatc     1260
cagctccaag aagatgctca gcaaactgtc ctttcatgtt atgcagcatc tgcagtgtgt     1320
ttgaagacag aaaatattcc cagcaatagt ccttttcgta tctgaaacca cgtcgcctag     1380
cctcttccca gccctcaaac gcattacaa ctgttaagtg atcacttcta gtatcctttg     1440
ccaattcctt tcttcttgca tctgcaatct tttctttttcc cagtggaatg acaaatggat     1500
ctttgaaact gagactagca gcaatagtga gtactgggtc taagcagcag aacagtgctc     1560
caaaaagaat cattttccca atatgtggct caacgggtaa tcgtgccaag tggactccaa     1620
gaggtgtcaa ttcttcttgt ttatccaaag cgttcagctc catcaggtgt cttatggaga     1680
gtaacactgc ctcatttgat ggtgggtcca ttaatctact cagaaaataa gcaattccac     1740
ctagccttaa aatctttatt tgtaaacaaa gttcttccaa aggagttctc aaaatttctg     1800
gcagttgata gtcatctaga agacttgctc taagcccatt atacagatga tagcaatggc     1860
caggttgaac tcttccagct cgaccttttc tctgtttggc attagcttta ctaacccact     1920
cagcggacat tgtactgata ttgttctgag tatcaaaatg cgtctctttt atttttcctc     1980
catctatcac ataaacgaca tcatctatgg taatgctagt ctccgcaatg ttggtagcaa     2040
ttactatttt ccgaacacca ggaggggttc ttttaaacac ctgtgtctgg ttaactgtag     2100
gcatcagtga atgtaaaggt ataattaaaa atttatctga tttaaacatt acttgtgaca     2160
tcaagagatc atgtaaagtg ctgatattgt cccagcctgg cagaaagacc agtatcgcac     2220
catcctcttc ttccaaaaca atgtatcgga tgagggcaac aatcaaattc agatcaactt     2280
tatcatcctc catcatttct ataacatcta cagtacttgc agaatacctt cttcgcagtt     2340
cccttacata atctggccaa cgttctttat atattgcttc ttttcttct ttttcttggc     2400
```

```
tatttacatg cccttgcatg aaacccctct taaactggga tctgtgttct ttttgttctg    2460
gaacatacct tattttttca attacatctt ccaaaagata ttccacaacc ggaaaggtaa    2520
aaccaggtat gtgtatcatt ggacagttac caaaatattc tgaaaacttt tctgcattca    2580
atgttgcact catcaatatt actttcaagt cagatcgaaa attgagaagg tctttaacaa    2640
cagtcattaa aacatctgac tgcagatttc tttcatggat ttcatcaagt acgatatgac    2700
taacactgga caaatacggg tctgactgga gccactgaag gatgattcct gttgtacagt    2760
ataagataga accctgtttc cttggcaacc gactctggag acgaatttga tatccagtac    2820
tattaccact gccacaagat tctgcccttt ctgcagctac tctttccgca actgaaatgg    2880
cactaattct tcttggctga gtacaaacta ttctgcaagc agatcctttt cctctttcaa    2940
tgtagttatc caaaatgaac tgagtaactt gagtggtttt gccacaacca gtttcaccac    3000
ttattactgt tacctgatgg ttatcaatta aatttaccaa ttccttttgc attccatacg    3060
aaggcagctt ttctctgaaa tgctgcattt caatataccg aaggtcattt ttttctcttt    3120
gtaaatcttc caataatttt tggtctaaag ttccatctgg ttcattttct tgcaagagat    3180
actcagaatc tcggtcaata tatgatctgt tcctgattct aaacattttt ttttcttgat    3240
ttatcaactt cttttcctgg atgtcaagtt tgttctctga gcatggtgtg ttcttagtag    3300
aaacttcagt accgtatcca tgatcctcag gagcaaacca ggatatctgt gcttctgact    3360
ctttatcatt cttcgcttga acagaattca.gtaactgtac aatttgttct tctcgtcgtt    3420
catccatgtg tactacagct ctctcttgcc tctccgcttc cttgttcttc tgcccctgtt    3480
ttttcgcgta ccacatgccg atttcgcggc ctttcaggtg cccgggatgc cggcccctgc    3540
cgcctcgacc accccctccg ccgccgcgc ctcctccgga gcctcggtta cctccatgac    3600
cccctgctgg ccccccctcca tagcccccac cggagctgcg gggacccca tcacggcccc    3660
agttctgatg gtagtcataa ctcattgtcc tggcagacta caacccgtca gaaccagcaa    3720
ccgctggaaa tggcgtcccc cacgcgtccg                                     3750
```


```
<210> 6539
<211> 1783
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (852)...(358)
<223> similar to gi5565635 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



<400> 6539
ccgggtcgac gatttcgtct tcgtcgtcgg gggcctcgct gtaattctgt tcccattgtg      60
cccctacttc aagtactccg tcatgatcaa caaggccacg ccctacaact acccagtgcc     120
cgtccgtgat gatgggaaca tgcccgacgt gcccagccac ccccaggacc ctcagggccc     180
cagcctggag tggctgaaga aactgtgagc acctccactg acagaggcgg cccctcccac     240
ggctcccaat aaaaatgtga aaaccaaccc ccgaacgtga gcatgtgtgt gatcagaggt     300
gggaacaagt agacggtggc cggggtgagt gtggggtcag tttattgggc atgcgtcagt     360
caaaggctgg gctggccagg gtcgggtagg gcagcagttt gtctggaccc cgagaaaccc     420
aactggaatc cagggcctca tctgcttcaa agccaaagtc ttcctcaacc ttaatctgca     480
ccggggccag ctctggagtc agcgcatttc ctgctgggcg tccatcccgt ggcactcgcc     540
gcctcttccg cccactgggc ccctcaccgg gggctgggac tgccgggttt ctggggggtgc     600
aggagtcctt ctgggcgggg acagtgtctc tttctctgga ggctcattct ccgcattgcc     660
tggggtgggg gcatccgtgc cctggctgcc ctcatcctgg caggcaggag ggggaggtag     720
gtgatgggtg ggtcctgagc tcccagttcc tgaccctcct ggaggcccaa cactcacctc     780
cagcacaatg gtgaactggc tggcccggta gtcatccccg taggagtcca gcactctcat     840
```

                                      5186
```

```
gaggaacctg ctcagggggа gaagccacca acggaataac ttatctccta gcggctgggg      900
aaaagggcca caggatagag ctcagctccc actccactca acgccaaagc tgtcctggag      960
ccagacggtc ctgagctctg gcactggagg cctgggagcc atgcccttga ccagccttga     1020
gacctcgagc aagacaaggc aaccattctg aggctgagtt tcctgctctg caaacgacat     1080
gacaccctcg gctggatgtt gcagcggtga cactgaagta gtgacaccag acgatttctg     1140
tacttaatgt gatgtcagca cttagtaaac attcatatgt gagttataat ttttattgat     1200
aactgaagag aggggagtac agaacgctcc tcctaatgac ctcacctctt ataaacaccc     1260
ccttctcttt tttccccagc ccctgcctcc agagttcctt aaggttcaat tgatggaatg     1320
cctcctctgc accagcacct gggcaggttt gttgttgttg ttttgcgacg gagtcttact     1380
ctgtcaccca ggctggagtg cagtggcatg atattggctc accacaacct ccacctccca     1440
ggttcaagcg attctcctgc ctcagcctcc tgagtagctg ggattacagg tgcccgccac     1500
cacacccagc taatttttgt atatttagta gagacagggt ttcaccattt gggccaggct     1560
ggtcttgaac tcctgacctt gtgatccacc cacctcggcc tcccaaagtg ctgggattac     1620
aggcgtgagc caccgcgccc ggcctattat gcttttaaga ctcagaagta tctggccact     1680
actgatgttt acaaagtagg aaatttagcc tgtagttcca gctactccag aggctgaggg     1740
ggtaagatca cataagccca agaggctgca gtgaggtacg att                       1783
```

<210> 6540
<211> 1755
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1756)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1030)...(349)
<223> similar to gi5731817 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6540
```
tttttttttt ttattttttg aacggtcaca atatgcattt attaatgaat gtatttatac      60
acaatacaaa cgtgcgggga caccgtcccc ttcacagccc agaacccagg gtcagaagat     120
gagggatcca gcctcagagg ggagatatgc gacttcccaa gagcagttct tggcctggga     180
ggggccatga gagtgcaaga cacggggccg tggccggggc ggggctacgg gaacggggcg     240
tggccggccc ctgaggttac tataggggaa tgggcccggg ccaggtcccc ttttctttgg     300
ggcagtggga agacagcggg gcccacggca tagagctgct cacgtaggg cgtttctgcc      360
gtatttgcca aagctgctgt cgccttcttg gtccgaggtg gcgacgggca tcacggacac     420
gggagcctgg tagggccgcc gggcgctggc ggctgggtcc tcgtcagagc cgcagcagca     480
ggcggagcag aggcagaggc cacccaggat ggagatcagt gaggcgctcc accccaggta     540
gagggcgggg cccagctcgt acttggttcc ggggtacaag gggtccgaga agtccccggg     600
tgatgttgaa ggcgtaccag gaggatggcc accatcccgc agatacccgg caagattgtg     660
aggggcccct gcggtggccg ccagcttggc tttcctggag agctccaggc ccccaatgtt     720
ggtgcagcgc aggcccgcta tgcctagcaa gaggccgagg aagcccagga ggatggcggt     780
gatcatgagt gcccggcagg cctgaatata cccagagagg gccagcatgg acgggaactc     840
ccagcagttg tagacgccca gggagtcggt ggcacagcta aaccagaggt tctcgaagat     900
ggtgttggtg gtgatgacgt tcccgtgcac agtggacact cgccagtagc tgtttggcag     960
```

5187

```
agtcacccccc agcatcagca gccccacagt tgccatgaag aagccaaagg tttccacagc    1020
catcgacatg gtgggatgca ggaccctggg gggctggtgc cccagagagg gggagggca    1080
gaacccctag ggaactggaa ggggctgcgg ctaaggaggg ttgtccaggc aggctggggt    1140
ggaatcagcc tcagcctctg cctgcctctt cctcgggctc aggtccgtct ccactttctg    1200
cctccctcct gctctgtggg tctctctgct tcctggcagg tcagaggaat gagctaagcc    1260
tgcgcgcggc agcctggagc cactgacgga tacagccaag gagggggcccc caagggaggc    1320
actgggaact gaggggaagc gtctgtctct gactcagctt tcattggggg ccaaagaacg    1380
gagtaagagg gacaaggagt gaaaagatga cagagacaga cgtgagagca ataagggaca    1440
gagacggaga gagaatgaac agcagccttc agtggtgaag gacggaggaa ccacgagaac    1500
aatctaagat actcagacca aggggttggg gcgtatgagt ctcttaagga agatcaagct    1560
ggaatgaggg gatgggaggg taggagaccc acagctctgg gctccatcca gcctggaatg    1620
gaactcggcc ccaccatcca ttcaccaggg aactcagacg ggagagtttt agtcccctga    1680
gcttctgctc tgtcagtgac aannccgnct gcttcgnnnt tccnccgcnc tggcctagtg    1740
tactgcaaat cgagg                                                     1755
```

```
        <400> 6541
agcctcgacg cactgatttc ggcacgagga ggtgcaggcc aggggccgta aggcctggag      60
ggcgccagcc gggccggcgg gcggggtgat tgaaccgcgt tccctggagc tggaggctcg     120
ggggaaaggg ccagcacgga gcgggcgctc ggttgctgcg cacaaaggct gaggctccaa     180
gagctgcagg gcgtgtttgg daccccagag tcagaaggag tgagaaccct gaccccctaat    240
cccactgcat ccagccaata ggagcccagc caccatggcg gagctgcagg aggtgcagat    300
cacagaggag aagccactgt tgccaggaca gacgcctgag gcggccaagg aggctgagtt    360
agctgcccga atcctcctgg accagggaca gactcactct gtggagacac catacggctc    420
tgtcactttc actgtctatg ggcacccccca aacccaaacg cccagcgatc cttacctacc    480
acgatgtggg actcaactat aaatcttgct tccagccact gtttcagttc gaggacatgc    540
aggaaatcat tcagaacttt gtgcgggttc atgtggatgc ccctggaatg gaagagggag    600
cccctgtgtt cccctttggga tatcagtacc catctctgga ccagcttgca gacatgatcc    660
cttgcgtcct gcagtaccta aatttctcta caataattgg agttggtgtt ggagctggag    720
cctacatcct ggcgagatat gctcttaacc acccggacac tgttgaaggt cttgtcctca    780
tcaacattga tcccaatgcc aagggttgga tggattgggc agcccacaag ctaacaggcc    840
tcacctcttc cattccggag atgatccttg gacatctttt cagccaggaa gagctctctg    900
gaaattctga gttgatacaa aagtacagaa atatcattac acatgcaccc aacctggata    960
acattgaatt gtactggaac agctacaaca accgccgaga cctgaacttt gagcgtggag    1020
gtgatatcac cctcaggtgt cctgtgatgc tggtggtagg agaccaagca cctcatgaag    1080
atgcagtggt ggaatgtaac tcaaaactgg accccaccca gacctcgttc ctcaagatgg    1140
ctgactccgg aggtcagccc cagctgactc agccaggcaa gctgaccgag gccttcaagt    1200
acttcctgca aggcatgggc tacatggcct catcctgcat gactcgcctg tcccggtctc    1260
gtacagcctc tctgaccagt gcagcatccg ttgatggcaa ccggtcccgc tctcgcaccc    1320
tgtcccagag cagcgagtct ggaactcttt cttcgggggcc cccgggggcac accatggagg    1380
```

```
tctcctgttg aatggccctt gttgccctag agtgggaccc agccctcacc tcccccagag    1440
ctaacctggg aggtgctgaa ggggcattgg gccaccgtaa gcaagggaaa aagggcagat    1500
catgcgggga gatgaccttg atctttgatt gctaccctaa ccttgacctt taacccgtga    1560
ttccccccag ctcctggaag agatgtccta atatctctta gggacccaga cccctaaatt    1620
ctcctcctcc cccattttga tgttaaggtg gagagggcat atgcatcctc tgtcctgatc    1680
taggtgtcta tagctgaggg gtaagaggtt gttgtagttg tcctggtgcc tccatcagac    1740
tctccctact tgtcccatat ttgcaagggg aggggatttg gggctggggc tccattcacc    1800
aaagctgagg tggcttctca ttaacccttt aggactctga agggtatgga cctacgtgaa    1860
tgtgtgtcag ggggagactt gctggtgggt tagtggtcct caggatgtga tagaaacatc    1920
cagtgtaaaa aggaagttgg aatgggagtt ggcgggcagt gaacgagtgt ggggaaggat    1980
tggtgctggg gcaacaggaa ggggcctggg gccgtttggc tgcactaact ttggtagctc    2040
agtgtgcatc tagagtggga ctggggaggg agctaagctt gggctgggct gcttggggct    2100
tggcataggg tggaaagggc taccctgggg ctctgaccac actgtagtat gtgtggaggg    2160
tgccctcccg tctcccacaa cttctgctat aacaataaac tgtagaggaa tctgagtacc    2220
gttattattc tttgtctagg tgtgcctgca tcatgctcct cttcctatct tctccctgtc    2280
cacgtctcat attctcttct caaagtgata taaaccctgg gagagggcct ttgtggcata    2340
ggcacttcac aaaatatgac cacatagaaa ctggctcttt tccaatacaa cggtgttgcc    2400
ttgatattgg agtattttta agcctg                                        2426
```

```
        <400> 6542
tttttttttt ttgcagataa tttctttatt gaaactatca ggaagtttta ctatgaaatt      60
ttacatacat gatggaaagt ggaagacata taccaattat attccaggaa aaaatacttt     120
aatagtattg ttatatagtg tattggctaa ttccagtgga tcctcatctc tcactgctga     180
cattatctcc aatatttgaa ttatatggca gggttcattt ctgtctttta agcagtgccc     240
actttcccac ttctttttgg taggaaatgc agttcttata tattttgatc cagcatgtgt     300
acttttgact ccacaccaag ggtgcatctg tctcaatcat taattttca ctaggaattg      360
acttcaaaac ttccaaatta gcttcagttt tcagtgagca accattaaat cctatataaa     420
gatccaagtc aatcaaagca gctggctgct tccttggtac catcaaatga atgcaccact     480
ccccctacac accgatctct atttcttttc attatgtcca aaaaattcca gccatgtgag     540
tttcgacaat ggaggaaaca ttggtaattt tgtttgttct gacagttcaa actgtttttc     600
aaaatatttg agttgagtat ctttgggaca aaactgcagt cggtcaaaat caagtccgca     660
ttctcctatt gccacaactt tccctttatt gttttcagca agatttagca actcctttaa     720
gtaaagatca gggttattct tttcaaattc accacatctt gtaggatgac atccaactgt     780
actgaaaaac ataccatttg tttgtgccaa atgcagtgca tctttactgt cttgtagatt     840
tccacctgta atcataaact tttaacacc aatctcgaca gctctcccta ttacatcctg      900
taagtcatct tgatgctttt gaaccccct ataaattcct ctgaacatag ggtcagtcaa      960
gttgatacca atatctggag gttcaaggac ttcgggaacg gaattggaag gtggcctctc    1020
gcttcacaga atcctatggt agacccgggt tcaaatccag gcttcgccac ttatggccgg    1080
gagaccttgt agagttgctt gtcgggtctg ggcgtcagct ttttgtttag taaaacggac    1140
```

<210> 6543
<211> 1483
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (34)...(1200)
<223> similar to gi495223 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

        <400> 6543
atcgagacca tagaccacgt cggggaattc gccatggcag cccaggcagc tggtgtatct   60
aggcagcggg cagccactca aggtcttggc tccaaccaaa acgctttgaa gtacttgggc   120
caggatttca agaccctgag gcaacagtgc ttggactcag gggtcctatt taaggaccct   180
gagttcccag catgtccatc agctttgggc tacaaggatc ttggaccagg ctctccgcaa   240
actcaaggca tcatctggaa gcggcccacg gagttgtgtc ccagccctca gtttatcgtt   300
ggtggagcca cgcgcacaga catttgtcag ggtggtctag gtgactgctg gcttctggct   360
gccattgcct ccctgaccct gaatgaagag ctgctttacc gggtggtccc cagggaccag   420
gacttccagg agaactatgc gggaatcttt cactttcagc cgctgtgtcc cccctcccca   480
gttctggcag tacggagagt gggtggaggt ggtcattgac gacaggctgc ccaccaagaa   540
tggacagctg ctcttcctac actcggaaca aggcaatgaa ttctggagtg ccctgctgga   600
gaaagcctat gccaagctta atggttgtta tgaggctctc gctggaggtt ccacagtgga   660
ggggtttgag gatttcacag gtggcatctc tgagtttttat gacctgaaga aaccaccagc   720
caatctatat cagatcatcc ggaaggccct ctgtgcgggg tctctgctgg gctgctccat   780
tgatgtctac agtgcagccg aagccgaagc catcaccagc cagaagctgg ttaagagtca   840
tgcgtactct gtcactggag tcgaagaggt gaatttccag ggccatccag agaagctgat   900
cagactcagg aatccatggg gtgaagtgga gtggtcggga gcctggagcg atgatgcacc   960
agagtggaat cacatagacc cccggcggaa ggaagaactg gacaagaaag ttgaggatgg   1020
agaattctgg atgtcacttt cagatttcgt gaggcagttc tctcggttgg agatctgcaa   1080
cctgtccccg gactctctga gtagcgagga ggtgcacaaa tggaacctgg tcctgttcaa   1140
cggccactgg acccggggct ccacagctgg gggctgccag aactacccag gctcctccta   1200
ggttgaatca gctgaggcag cacctgatga agaaactcag gaagacagcc ccacatctct   1260
aaggagaaat gaagaaaagc aaatcctgct ctctctactt tttcacctcc ctctccccat   1320
gttccctgcc tggtttgctg ttgatctgtt gattgactta gactgtaagc gcatgggggca   1380
gggccagtca ctttcttctc atgacagagc tcactgcagg gctgtgctcg gtgctaggga   1440
agcagcatta gaataaaacc ccacctggat gcaaaaaaaa aaa   1483

        <210> 6544
        <211> 1422
        <212> DNA
        <213> Homo sapiens

        <220>

```
<221> misc_feature
<222> (9)...(866)
<223> similar to gi180098 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



      <400> 6544
gagagatgct gccgctgctg ctgccgctgc ccctgctgtg ggcagggccc tcgctcagga      60
tgcaagattc cggctggaga tgccagagtc cgtgacggtg caggagggtc tgtgcatctt     120
tgtgcactgt tcggtcttct acctcgagta tggctggaaa gattctaccc ctgcttatgg     180
ccactggttc cgggaagggg tcagtgtaga ccaggagact ccagtggcca caaacaactc     240
aactcaaaaa gtgcagaagg agacccaggg ccgattccac ctcctcggtg atccctcaag     300
gaacaactgc tccctgagca tcagagacgc caggaggagg gacaacggtt catacttctt     360
ttgggtggcg agaggaagaa caaaatttag ttacaaatat tccccgctct ctgtgtatgt     420
gacagccctg acccacaggc ccgacatcct catcccggag ttcctaaagt ctggccatcc     480
cagcaacctg acctgctctg tgccctgggt ctgtgagcag ggaacacccc catcttctc      540
ctggatgtca gctgccccca cctccctggg ccccaggacc ctccactcct cagtgctcac     600
gatcatccca cggcctcagg accacggcac caacctcatc tgtcaggtga cgttccccgg     660
agctggtgtg accacggaga gaaccatcca gctcagtgtc tcctggaaat caggaaccgt     720
ggaagaggtg gttgttttgg ccgtgggggt agtggctgtg aagatcctgc ttctctgcct     780
ttgcctcatc atcctcagtt tccacaagaa gaaggcggtg agggcagtgg aggttgagga     840
gaatgtatat gctgtcatgg gttaatctct caggcctcca gactgtactt ccagatgtct     900
cctcatccag ttcctccaca gtctgaatgg ccatgtttct tcttcattgc tggagaatga     960
agtgcaaatg ccactgcctg gactgaaggc cttttcacgat ctgtcttctg ctggactctg    1020
ctcctgatcc cccttctcct tgcatcaccc gaagtctccc tacacccacc aggccaagcc    1080
ctctgtgatt ctgagacttt gcatgtgtag ttacttctcc tgaaatggcc ttcctcccca    1140
ttcctgccaa tccaggtcct tatcatcctt caggttgtct taaatgtcat ccaggtgtgt    1200
gtatttttat gtaatccttg tatgatatta agcggagatg tggcatttgt tcattaattt    1260
gtagacatat tcagtaacca tactgaatac atataatgac tatgtgccag catttccgta    1320
tgtgcaagaa gttcatcaat agatatagac tcaaagagct ctgtcatcaa gctgttgttc    1380
tgaagagcag aaggatacaa ataaaaagaa ataagtaaaa ta                       1422
```

```
<210> 6545
<211> 3120
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3065)...(791)
<223> similar to gi3687445 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters



      <400> 6545
cgttcaaaat aaaaatgttt ttaaaagtgt aatttccttt ttatttgcat ctgtttatga      60
ctgaaaaaat gactagttat tatgaagaca ctactgttga agatggatat tttaacatgg     120
agtttcaaca aaattacttc ttgagacaga gctgatgtgt tttttaaata acgtgatttt     180
aagcatatat ttgaacaaaa ctaaaacatt tagtattatg aatatgaaaa aagatcagta     240
```

```
aatcaatgta ctcttctagg ctgaattaag gtagactatt taaggtttca aaaaagtttg    300
gctggggcag aataagtttt acaaaaccca tgccatccaa aattaagatg acatgtagca    360
gcaagaagta ttccaatgtc tcataaccag ttctcgcaag caatgtgtat tccttacttt    420
aaggaagtgt caaacaaata gaaaaatctg gaagaattta ctaagtgtaa taaattagag    480
gtaaatcgta ataaaagaat ttatgtctca caaaaatatt cacaagtggg agttttcttc    540
taccaacttc tcagagtcct tctagccccc tcttcacttc tgaaagatgg gatttaccaa    600
aatctggttt acatttaact tttcagggac acatgacctg aaaagaaaga tgtcagataa    660
tactgacatt gcctcatgca cttttctttgt atcagtcctt cttctgtaag taatcagaat    720
tgggtccaaa tggcatagaa tcaaacatta tgtatcatgc caaataccac ttcctgccca    780
acaaaatttc atttttctcc agtaatgaag aggtggacat tcttgttgga ctgtagcatc    840
tgtgccgccc gctccacacc aaccacggca gctaacctct gggcatcata tttggagtag    900
agaacagtgc aggtccacgt ggcctcttct cctctgttgg tggctctcag catattacag    960
atttcactgt aaaagtgtgg atatgtcggc agttcataga aaatcaggtt cctgatgcct   1020
tttattgtat accttttgta gaaatggaag cgctctgtga aaagtagaaa ctgtttctct   1080
ccttgaagga agaagtgtct ggccctggag acaccagact tctgcgtgta ctcgcagatg   1140
tgggtaaaat tcaattcctc cttcttgaag taatttcgaa gacgcacgaa gtcaaagtag   1200
gaggggatat agatgagcgt gtgagacatg actgcatcac gatactgtgg caaaatcttg   1260
ttcacaaaaa agttaaacct ggcatcaatc actgaagcta ggttttcagc ttccatcctc   1320
tggaagacat gtgggagctg caccaggaca tgactgatag agcctgtcat tgggacattc   1380
ctcacggcca cctggccttg catgttgaca cagtacttgt tgaacactga gttgatctgg   1440
gcatcctgaa gggccccaaa tagcagtgtc tggcgatagt acttggacca attattgagg   1500
ctccacatcc gcactcgaga aaagtctacc ccatgtgagt ccaggggtag taggttcatg   1560
tgattcatca aatgcaggac atgctcccag ttctgcatca ggtaaatgtc agcttgatca   1620
atgatgagaa gctcgataga agacagaaag tcaaaatctc tcttcttctc tccttctcca   1680
ccaatgatgg tcctcaagcc caggggggaa gcaatgagga tatccgagga gtaaaacggg   1740
gcatagagtc ggatgcttct ctgaagtatt gccactccaa tcctgaagtg gtcatcaata   1800
ttgcccacaa atacggcttc ataatcctca ggcctcttca agttgggtgg tctctcctcg   1860
ggatctgatc catattctcc ctgaaacctc tttttgttgc tcacaatgat tttcttcttg   1920
ctgtcaccct cgaggaggct gatgaagagc tgcaccaccc gcaaagcagc ttcccggaat   1980
ggcaccacta tcagtacctt gggccttgtt aacccttggt ctctgaagtc atcatcatca   2040
cccactccaa acttctggct tcggcgtctg ctattgttgc caagcacctg ggcattggct   2100
ttgaggatgt gatttatcac atgcaggcaa tacacatggc ggatctcttc cccgttcttc   2160
agagcagtcc tttccgggta gaacaggtcc ccggtaaaga attcataatt aagaagagtt   2220
ctttctggag gggggtgaat gggctgcttg atttttgggg accagatagg aactggctgt   2280
tggtcttagt ccaggtggat tccagaggct tctggagatg aagtgacttt aagtcaatat   2340
cctttggggg tttaaatgtt ccccccttct gaaacttaga ggaaaagaaa agctggccca   2400
gaataggcca tttaagctcg tgggtagttt tgggatttgt gggcaacagc ctgaattgcc   2460
ttttctttca gttccttgtt cacatgttga agaaatggat cttgagaggc tttcaaagaa   2520
gagttgtctc cactttcctc ttctagaaaa ttggtttcca ggctgaacag tgactcgtgt   2580
tttgcatctg tgaactcttc aggggatgtt tgtgatgtgc ccggtggctc ttccccatct   2640
tcttttccct cagggtcagc agataaagct acattctctg gactttcagt agactctgca   2700
gccatctctt cttccacact gacatcgcta ccaccatctt catcgttcat ttctgcatca   2760
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tcgctttcag aatctgaaga atctgaactc tctgacagtt gacaaatctg tggctttgct   2940
tcctttctgg aaaccctgtc atagaaggga tgctcctcgc cgaaatctcg aagatgtttc   3000
ttctgctttt tagttagggt gttgagtagc tggctctggc tccggctccc gcgtttgccc   3060
atagcgaaaa cgtcaagttt gcccacttgc aagagtcgcg gttttccacc aggaagttgt   3120
```

<220>
<221> misc_feature
<222> (2738)...(48)
<223> similar to gi895840 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6546
```
tttttttttt ttgaaattgt aaatgcccag aaacttccat tgtattaatc aggagttagc      60
gcagtacagg caccacgtgg ttgtctccag gagcttgagg ggcctgagca gactgggggg     120
atatcccctc cccagggctg ggcccactgg ccacccttct gcccaggggc tgaccctcgg     180
gccccatccc cagcagccca aaggctgtgt tgaagaggtt gatgggagtg gagccatcgg     240
tgatgagggt tgatttcagg cccagggact ggagcagttt tacctgcatc tcaggcccag     300
ccacagcaag gtccctgatg gtgctggggc ctatggcctc tgtcatctgc ttgaacttct     360
tcacctccac ctcagccagc tgctgagcct tgctcacctc cagctccagc tgggcccggg     420
catagaccag ttccagctct cggaccttct ggaccctctg gagctcagcc tccgtttcaa     480
tggccaaggc ctgtgctttt agcttggcct gcagcacgga cccttctccc tcaatccggg     540
ctgcctccgc acgggactcg gcctccgcct tggcagtccc ggtgctctcc acggccatgc     600
tcagagcctc cagctccaaa agttccttgc gagctttctc ggcttctgac tggtccagga     660
tcttctgccg ctcaagccgg ccgcgggctt cctgctccag tctctgagcc tcatgcttgg     720
ccgccgcttc ctgggagttg gtggtgatct cgatggccag ctggacgctg cgttgcaggg     780
cgtcccgggt cctctgatcc acaggctcca ctgactgcac gtccacactg ctgaccacca     840
gcccgttttg ggggaagaca gcctggtccc ggggcctggg cagggccatg ccatcggggc     900
ccttcgcttc cgaggtctca aagccaaaga cagcagtgcg aatgatgcgg gctgagttct     960
tatggaagtc atcgaaagtg acagaggcca cggcccccccg cacccgggat gcgatggctt    1020
tgcaggcatc acctacaaag tctggcactg aaaagagctt ggccgtctct tggggggtcct    1080
tccggtcatt cacctcaaag tgccagttgt aggccagctg cagttgcagc ctggcatgat    1140
ccgccgtttc gatggtgatg acgtctgtga agaagtcagg ccccagcagc aggcagagcg    1200
cacggcgggc atggggacgc ttgggccgcc cagctgagag ggacaacact gtgaactgct    1260
cctcaggacc cagcgacacc agctcaggcc cgaagaccac gcgggctcgc ttctctcggt    1320
agtcgtacac ctgcaccgca gcgttgtggg gcacgcggta gctgaccaca cgggtcttgt    1380
tccggggcgc caagggctgg aggctcttag ctgtgtcctt ctcacccctg tctgccagag    1440
ggtcctgccc cttgttcagc agctcctcca ccccgggagg cagctctttc tcccacagga    1500
cttcgtcctg ggtcagcatg taggtgcttc caatcacagc gcgcaccttt ccggtcttga    1560
catcctgcac atagatgccc tcgttctcgt ctagagggat ggcctggcgc tcctccacca    1620
cctccacttt ggcagatggc acatactcca ggggtccgcg gatgagccag tggtccccag    1680
cctggtgtga gaccttctcc tcatcctccc cctcctccag gggctgcagg gccctcagca    1740
gcagcccctg ctgctccgac agcacataca catcctggat gccttgttcc agctgctctc    1800
ctggctggag gaaaaaagac ttctctccct tgaccacgcg cttctgcccc agctgattct    1860
tgccatccgg tccgacaggg tcgagaatca cgcagtagtt gtgggggccc agggtggtga    1920
tgggcacaac ccccagcacc tcctcgtgga catctggcac gtgggcctct gtgtcctgca    1980
ctgttaccag ccactcctcc ccagtgcggc gggacactcc cctgaagtcc cggaagttcc    2040
gccgagcccg gaggtgcagg gctgtctttt ccgtaaggat gacggcgtcc accaaatcca    2100
gaacctcctc aaacaccgct gggaggtacg cccctactgt ggtgaccagc cattcttccc    2160
ctgtcaccct ctccttgccg tcccggtccc agcactcctt gcgggccctg agccgcagag    2220
cctggttctg cctgatgatg gtggcctgaa tgatctccac gacctccact tccttccggg    2280
ggatgtacgt gccaggtccc tcgaaaagcc actcatctcc tgccaccacc ttgtctccat    2340
ctttatcctc aaaatcaagc agcgccttta gatggagggc agtgttgggc agaaccacct    2400
gcaggggtgt gatgtccttt tccagcacct cccctgggta caggggaag gggtcctggg    2460
ccagccggat ctcgaggtca gcgtggcgaa gccgaacttg ccctgtgaca tcaaacagca    2520
ccaagccctg ggcatcccga gacacagggt tggccactgt gcagtagtga cgtggggggga    2580
cggtcaccat gcgcatgggg gcaaacagta ccctctcatt gtcctgccgg atgtaggtct    2640
ttggcccgac ctccacacgg gacacgttgc tgttctggtc cagcacatgg atatagtggt    2700
atggggggat gcggatgatg aactcttcag ttgccatggt gactcctaag cccagggctc    2760
```

```
acaagaagat gactggtagg tgggggagac gacacaggat gaacctgggg agcatctaga    2820
agtgcaggta gctgcaacaa acacgaaa                                      2848
```

<210> 6547
<211> 1845
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1846)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (1749)...(1447)
<223> similar to gi950411 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

```
    <400> 6547
tttttttttt ttccaccgtg ttcctggagc tgcccgctgc cctctgccct gtccgtcccc      60
ggcagagctg ggagccggcc ctcagcatga ccaccgaaac tttatttaca acacgaggct     120
ggagtaagag gggtgggatg gaggacagca gcagggccga caggacccta cttctgctcc     180
cgcctccaga cgatgaccat gccgctggcg tcactggagg ccagtaggct ctcgtcgcag     240
ttgaagctga catcaagcac aggtgcactg tggccctgca gcttgttgac agcagccttg     300
gccgcccgct ccacatcaaa gaagtgcacg cacatgtcct cactgcccgt caccacgcag     360
gccccctggc ggaaggacat gaggggacag aagatgctgc gcacaggatg tgagctctgc     420
tcgatgggga agcttctctt cagctgcagg gtcccctcgt tgtctaccac cctgtagagc     480
agcaacttgt tgaggcaagc attgatgagc agtgagggat cccgggcctc gcggctgacc     540
caggaccggg ctgagatgct ggtcacaggg ctcccctcat gcaccaccaa acgcttggct     600
ttggtcagct tccctgtggc catatcaaag aggaaagaga agacactgcc acggtcatca     660
cccgcccaga gcagccggcc aggggcatca aaggacagag caaggacacg gcctgtcagc     720
ttgctggagc ccccccttcac tttcttgcct gtggagatgt tcatgacatg cacgttgtgc     780
ttggcgttcc ccaccacagt gaggttgttg ttgacaggct ggaaggtgca gcagagcagt     840
tcagcgctat cggggtcagg gatctctcgg atgcagcgac catcctcaga ggcccagatg     900
cgcatggtgg catccagtga ggtggacacg aggatgtcat tggagaggga ccaggcgaag     960
tcggagacac cacgggtgtg gccccgtagc acgcgaagca ctgtgggtgg ggcaggcacc    1020
agctggcaca gggagatgct gccgtcgagt gagcagcagg ccaggcggtg tcggtcatca    1080
ttggcgaagc gcacccttgg gactgcctca tccacgtgct ggtcaaaaac atgatacatg    1140
cccgcaaagg catagttctc gctcagtgac gtgtccccgg ccatggcccg acttgcctct    1200
gctgctgacg tgggcaccac gctgccaggg ggcctgtcct catagacggc acggttcatc    1260
tgcgcctgca gctggtagga gcctctgctg acagaacgac ggtgcccacg ggccccccagg    1320
gcccgaggat catcctcaaa gtcctccatg cggtcaagag tagtgcggct actgcggacg    1380
atgctgttgc tataggcacg agcactgcct ggctcggaga ggggcccgta gcgctggccc    1440
agcagctgcc cccgaagcct caggtactgc cgacgcagcg ctggggggtg cccagccttg    1500
gcattctccc gcagcagctg gctgcgccgg cggatatact gcgtccgaaa ctgtggaaac    1560
gttggtgtgc ggtacgcgtt gtacctcgcg tccactgcta agacttgctg ccacaccgcg    1620
gccattcccc ggcctcctcc tctggcgtgt ccgccgcgcg cagcctccgg ggctgcctcc    1680
ggttcttgag gcccccccgga gcggccctga gaccactgtc gccggttcct tctgtctctc    1740
ctccctttct caggctccag gcaagatggc tgcccctcgt gccaagctgg cggtctgngc    1800
```

<210> 6548
<211> 1627
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (397)...(1289)
<223> similar to gi6018317 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6548

```
cgactccgct gggccacccg cccctcaccc tcggcctgac ccagcctctc cgtgcctccc      60
ctagccgcct cctcccagca gtcccccagg agcgagctgc gagatgcccc aaatcggacc     120
cctccccagt tggaaaaaaa aaacgactcc tgacctttcc cagcctcctc ggtccactga     180
gggaacccgc agccccgggc ctcgagcaga ctgctgggac tgcggggcgg ccgggcgcgg     240
ggcctgaggc ggggcggggc gggtcgggtc ggggggccttt aagaggcgcg gtcgccggga    300
ccgacacaga cgcggacagc gccgggactc gccgccccgg gactcgcgca gcccgcagcg     360
ctccggctcc tcctctcgcg accgccctcc gcagcgatgg acggagacgg tgacccagag     420
agcgtgggcc agcccgagga ggcaagcccg gaggagcagc cagaggaggc gagtgctgag     480
gaggagcggc cggaggacca gcaggaggag gaggcggccg ccgccgccgt acgctggacg     540
agctgcccga gccgctgctc gctcgcgcgt gctggccgca ctgccgcggc acgagcatgg     600
tgcaggcctg ccgcactggt gtgcctgcgc tggaaggagc tggtggacgg cgccccgctg     660
tggctgctca agtgccagca ggaggggctg gtgcccgagg gcggcgtgga ggaggagcgc     720
gaccactggc agcagttcta cttcctgagc aagcggcgcc gcaaccttct gcgtaacccg     780
tgtggggaag aggacttgga aggctggtgt gacgtggagc atggtggggga cggctggagg    840
gtggaggagc tgcctggaga cagtgggggtg gagttcaccc acgatgagag cgtcaagaag    900
tacttcgcct cctcctttga gtggtgtcgc aaagcacagg tcattgacct gcaggctgag    960
ggctactggg aggagctgct ggacacgact cagccggcca tcgtggtgaa ggactggtac   1020
tcgggccgca gcgacgctgg ttgcctctac gagctcaccg ttaagctact gtccgagcac   1080
gagaacgtgc tggctgagtt cagcagcggg caggtggcag tgccccaaga cagtgacggc   1140
gggggctgga tggagatctc ccacaccttc accgactacg ggccgggcgt ccgcttcgtc   1200
cgcttcgagc acggggggca ggactccgtc tactggaagg gctggttcgg ggcccgggtg   1260
accaacagca gcgtgtgggt agaaccctga gcgaccctgc ctccgctctc ccccagctgc   1320
ctggagggc aaaggtcgag ggtagatagg ccttaactta gtccatagcg tcctcacctt   1380
ccccaagcca cacatcctcc tcccatccct tgctccgatc ccagcccctg agcagggaga   1440
gagaagtttt gttggcatag gtttgcttag gtagccggct tctagaatgt agatccgtga   1500
gggcgtgagc ttggactgga cccactgctg attccctgca cctagcacag tgcttgccac   1560
aaagtgggct ctcaataaat attatttgtc caaggaagga atgaatgaaa aaatggataa   1620
acactga                                                              1627
```


<210> 6549
<211> 1302
<212> DNA

<213> Homo sapiens

<220>
<221> misc_feature
<222> (1033)...(222)
<223> similar to gi2662621 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

       <400> 6549
tttttttttt ttggcaggtt cagacaaaga gaaaatttta ttttcttatt cttgaaatga   60
ctgtacgatt tttcaatgtt aaagttcact ttcaagtatg atcaataaca agacatcaaa   120
tgtaaaaatt atgctgtatt atcattttct ccattgcttc ttaaaccact gaaagtaatt   180
tcacaattca ccacatttag gcatcttctt tttcactttc ttcatttttt acttctttag   240
gcaacaatgg atcaatcttc agtaataaac cttcacttgt tgaactacga aggaaagcac   300
gtaccacaaa gggacccaaa ttcagcggtc tgtgcctaca aacttcatta ataactgctt   360
gcagattggc agctatctgg tcacttgaca tatccaatgt tgctattttg gtctggagaa   420
agttctccct ttcttcatct accttaattt catgtccatt tttaaataat tcaagcattt   480
tggggatgtc acggccaatg gaatttcgag aaagctttgg atatttttta ttcagtttct   540
tccttaatcg attaagttca ggcattattt ctggaacagc tacgtaaaag tctgcaacaa   600
tttcatcatc ccaaatcttc tgtatcagac tagtgcctcc tgcaaatgca gctccatttt   660
cttccgctat tttgacctct gatgcattct ctgtaaatac agcaacttta ttgatttcgg   720
aagcaaatgg gtatgggcaa actaaggaac actgggtaaa tgggctccac gttttttccct   780
tcctttcccc cagtgccata tccagtgtca aatcaagata aacactttgc tttggactag   840
taaagtcaag aatttgaaat ttcttaagta agtgaacagc tttctccacc tcatatatct   900
gtctcgggta taagcgtttt aaatagacat catcctcagg ttcgccttcc atataggggat   960
atgctttat tttttctatt tcatcttttt tctcatctgg tgttttttct ttagcacctt   1020
tttttgtttt ctttgcagac tttgtagcag cagcaaaatg tctgttgggc actcggatgt   1080
ttacagaaca agaacaaagt gatgtctgat aaaccatctt ggaaaggcta tgcctttgat   1140
gatgtatcaa ggctctaccc atgcacctta cggccgccgc catgttgggc actccggatt   1200
gcgttcacga aattgttcct acgtttctac tgggaagaat taaaaaaagg ttccgttcta   1260
gaatccgcaa agagggaagg agttaaaaaa aaaactcgtg cc   1302

       <210> 6550
       <211> 4254
       <212> DNA
       <213> Homo sapiens

       <220>
       <221> misc_feature
       <222> (219)...(3436)
       <223> similar to gi3882215 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters

       <400> 6550
gactccgctt gacgaattcg gcacgaggat cgcaagacta ggcaacctcc agccagtccc   60
tgggtcgggc ggatcctccc agaggtggca caatggagcg atctccagga gagggcccca   120
gccccagccc catggaccag ccctctgctc cctccgaccc cactgaccag ccccccgctg   180

5196

```
ctcacgcaaa gccagaccca ggttctgggg gccaacctgc tggccctggc gcggcgggtg   240
aggccctggc ggtgctgact tcattcggga ggcggttgct ggtgctgata cctgtgtatt   300
tggccggggc agtgggactc agcgtggggtt tcgtgctctt cggcctcgcc ctctacctgg   360
gctggcgccg ggtccgcgac gagaaagaac ggagccttcg agcagcgagg cagctactgg   420
acgacgagga gcagctcact gcgaaaactc tctatatgag tcatcgagag ctacctgcct   480
gggtcagctt cccagacgtg gaaaaggctg aatggctcaa taagattgtg cccaggtct   540
ggcccttcct gggccagtat atggagaagc ttctggctga aactgtggct ccggctgtta   600
ggggatctaa cccccatctg caaacatttta catttacacg agtggaactg ggtgaaaagc   660
cattgcgcat cattggagtc aaggttcacc caggtcagag aaaagagcag atcctgctgg   720
acttgaacat cagctatgta ggtgatgtgc agattgatgt ggaagtgaag aaatatttt   780
gcaaagcagg agtcaagggc atgcagctac atggcgtttt gcgggtgata ctggagccac   840
tcattgggga ccttcccttc gtggggggctg tgtcaatgtt cttcatccga cgcccgaccc   900
tagacatcaa ctggacaggg atgaccaacc tgctggatat cccaggactt agctcactct   960
ctgacaccat gatcatggac tccattgctg ccttcctcgt gttgcccaac cgattactgg  1020
tgcccccttgt gcctgacctt caagatgtgg ctcagttgcg ttcccctctg cccagggggca  1080
ttattcgaat tcacctgctg gctgctcgag ggctgagttc caaggacaaa tatgtgaagg  1140
gcctgattga gggcaagtca gacccatatg cacttgtgcg tttgggtacc cagacattct  1200
gcagtcgtgt cattgatgaa gaactcaacc cacagtgggg agagacttat gaggtgatgg  1260
tacacgaggt cccagggcag gagattgaag tggaggtgtt cgacaaggat ccagataaag  1320
atgactttct gggcagaatg aagctggatg tagggaaggt gttacaggct agcgttctgg  1380
atgattggtt ccctctacaa ggtgggcaag gccaagttca cttgaggcta gaatggctgt  1440
cacttttgtc agatgcagag aaactggagc aggttctaca gtggaattgg ggagtctcct  1500
ctcgaccaga tcccccgtca gctgccatct tagttgtcta cctggatcgg gcccaggatc  1560
ttcctatggt gacctctgaa ttgtacccac cacagctgaa gaaggggaac aaggaaccca  1620
accctatggt acaactgtca attcaggatg tgactcagga gagcaaggct gtctacagta  1680
ccaactgccc agtgtgggag gaagcgttcc ggttcttcct acaagaccct caaagccagg  1740
agctcgatgt gcaagtgaag gatgattcca gggccctgac tttaggagca ctgacgctgc  1800
ctctggcccg cctgctgact gccccagaac tcatcctgga ccagtggttc cagctcagca  1860
gctctggtcc aaactccaga ctctatatga aactagtcat gaggatcctg tacttggatt  1920
catcagaaat atgcttcccc acggtgcctg gttgtcctgg tgcttgggac gtggacagtg  1980
agaatcccca gagaggcagc agtgtggatg ccccacctcg accctgtcac acgactcctg  2040
atagccagtt tgggactgag catgtgcttc ggatccatgt attagaggcc caggacctga  2100
ttgccaaaga ccgtttcttg gggggactgg tgaagggcaa gtcagacccc tatgtcaaac  2160
taaagttggc aggacgaagc ttccggagcc atgttgttcg ggaagatctc aatccccgct  2220
ggaatgaggt ttttgaggtg atcgtcacat cagttccagg ccaagagcta gaggttgaag  2280
tctttgacaa ggacttggac aaggatgatt ttctgggcag gtgtaaagtg cgtctcacca  2340
cagtcttaaa cagtggcttc cttgatgagt ggctgaccct ggaggatgtc ccatctggcc  2400
gcctgcactt gcgcctggag cgtctcaccc ccgtcccac tgctgctgag ttagaggagg  2460
tgctgcaggt gaatagtttg atccagactc agaagagtgc ggagctggct gcggccctgc  2520
tatccatcta tatggagcgg gcagaggacc tcccgctgcg aaaaggcacc aagcacctca  2580
gcccttatgc tactctcact gtgggagata gttctcataa aaccaagact atttcgcaaa  2640
cttcagcccc tgtctgggat gagagtgcct cctttctcat caggaaacca cacactgaga  2700
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tctcagagct cctcgtggct gaccagctct gcttggaccg ctggtttaca ctcagcagtg  2820
gtcagggggca ggtgctactg agagcacagc tagggatcct ggtgtcccag cactcgggag  2880
tggaagctca tagccacagc tacagccaca gctcctcatc gctgagtgaa gaaccagagc  2940
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catgttgaca gtccccttga ggctccagcc gggcctctgg gccaggtgaa actgactctg  3060
tggtactaca gtgaagaacg aaagctggtc agcattgttc atggttgccg gtcccttcga  3120
cagaatggac gtgatcctcc tgatccctat gtgtcactgt tgctactgcc agacaagaac  3180
cgaggcacca agaggaggac ctcacagaag aagaggaccc tgagtcctga atttaatgaa  3240
cggtttgagt gggaactccc cctggatgag gcccagagac gaaagctgga tgtctctgtc  3300
aagtctaatt cctccttcat gtcaagagag cgtgagctgc tggggaaggt gcagctggac  3360
ctagctgaga cagacctttc ccaggtgta gcccggtggt atgacctgat ggacaacaag  3420
gacaagggca gctcctagga gctggcgagt cccagcctga ctgctctgtc ttcctgcctt  3480
cgtctcgctc catcaccgcc tcaatgtgat gagcctaaag ctagggtcca agggcagagc  3540
ctgtgccctt cagccctttc acctaacagg cccatattcg ggcctttgcc tgaccaaaga  3600
```

5197

```
gaagaaccgt atgttccctt tactgcacgg cctttatcct tctgggcccc tggggcgggg    3660
acctgagctg gctgtttcct gctttgcctg cacattgttc tcccttcctc ccaactcctc    3720
agggccttct gtatctgtgc ctggccagtg gcagcactag cagtggtatt agcttatgcc    3780
aaatacagct ttggaaggat ctttttttct ttaactagat ggtcaccttc ttccctacca    3840
cacatgggtg ggaaggtgga caggctaacc tctccagctg tgagcctctt agactactgc    3900
atgtagcaaa tgttcagcag ctcaggcccc catgtccagt tctgtcccca ctgtcctcaa    3960
ccctgtcctg aaaattctac tgctttgatg gctggggcca gtctcttgtc actttggaaa    4020
ctgaggacgc gtggattcta ctcaagcctc caagtagtgg catatcagtc ttggagctcc    4080
tagctggtga tacggagagg gctttggagg acttgggaca gcagggccaa ttttttttgcc    4140
caagtgccta ggctgctaac tcactgacta gaacttaatc tggtacttta cagttttgca    4200
ccaactctgc caagccactg gatcttacat taaacatcat actcaaaaaa aaaa          4254
```

```
        <400> 6551
tttttttttt ttgacagatc ttgacaatgt ccttttaatt gtactctttt caaaaaatct      60
cctttctcag ttaaaaaagg acaaggcatg atgaagacct gctctgagcc cattactggg     120
cggtgatctc ggtcctgggg gaggccaggc cgggactctt ccaaggcctc ctccctgggc     180
agtcccagca atggggccag tggcagggca ggttctccct gccagaaccc gatcctagcc     240
cttcagaagg actggacctc tgtgtccctt cagtgggaag ccaccttgga cacacgcagt     300
cattcaggtg gacataaggc cactcttctc gccttgacc ttgaggaact cagccatgct      360
ggagaaatac ttctggttgg cctcagccac cttcttctct gccgcctgtg ggttcacaat     420
ctccaggccc tggagtgggg tgaaggccac gctggaggcc gtgcccgagg agcggtcgcg     480
gatggtggac ttcccgccat atacgacgct ctgcttctgc agggtccgct gcagcgtctt     540
ggagatcctg gccttggtgg cctcgtttac ctgtgtctgc cgcacacgcc cactgcccga     600
cttgcccagg tggcccaggc tgaatcccag gtcctcctgg taggcgtcct cctcgatctc     660
tccgaagctc atacggttgg cctgctatcc ggatctccgt cagccccagc cgctccttca     720
tcttgcggta cctgcggccg cctcgcttct tccgctgtcc atccaggggc gcaggcagcg     780
gcttcacctg cttcacaggc ggcggctcct gccacttgtc gaatttgcgc tcgatctcat     840
ccttcagttc gtagcccacc ttcccttctg tgctctcgtg gaaactgtcc acacgggctg     900
ccagtgtgca cttggcggcc accagccggg ccgctttccg ccgcagatcc tggagcaacg     960
gaaaacgggg gtggaatcgg tggcagggac tgcacgatgt cactgtggta gatgtagccg    1020
gtgtggggca gcactgaggt agacgagaag cccgacagcg tcttgcgctg ggccccgagc    1080
agcatgatgt tgcaggcggg catcttggag aggttggtca ggccgccggc cacacccatg    1140
atcttggcgg ccgtggatgc cccgataatg atggacaggt tgggtgcgat gaaggacatc    1200
cgggactcca catactcgta gatgcggtgc ttggaggcgt tcagctccag cgccatgtcg    1260
caggcctcct ccagccgctc cagctcctcc tccgacagct gctgcccctg ggtggtggag    1320
gcggtgacgc tgacgaccat gatggtggca ttggtgagga tctgctgcag gttctcattg    1380
ttcttgcact tgtccaggct gttgcccagc tccttgaccg tgcggatgta atccagtgca    1440
ttggggacca aggactccag ttcagggaat ctctttgagt acttatcccg gatgaactta    1500
tggatgatgt tcagctcgtt ttcgatctcc acggtcaggt tgttggcatc cacgatgacg    1560
```

```
cggtattcag gcgcggcctc cactggtccc atcacttctg aagctttggc ttgcttgctg    1620
atatactcct caatcttcat cataatctca gcaaacatct tactatccca tagcttggcg    1680
atggtcttga ctgaatcccc ggaaagatcc agctgtgtct cctcctgcac atcctcgatc    1740
gctggctcct cttcttcctc cccatagctt cctccttcct cctcttctgc tgcctcttcg    1800
agatcagcta agagctcatc tgccagagac atcccgaggc ctctcctctc cgcgcaccac    1860
tgtttctagc g                                                          1871


          <210> 6552
          <211> 2348
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (179)...(1457)
          <223> similar to gi4191784 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters


          <400> 6552
tagcggtccc aggagtttcc aaggtaaccg cgcagtaggg cggatctcat taggcggaaa      60
gcgaaacccg gaagtgacgc tcttaccggg tgtcagcagc gagagggttc gaagatggcg     120
gcgcgcaagg gtcggcgtcg cacgtgtgaa accggggaac ccatggaagc cgagtccggc     180
gacacaagtt ccgagggccc ggcccaggtc tacctgcccg gccggggggcc gccgctacgc     240
gaaggggagg agctggtcat ggacgaggag gcctatgtgc tctaccaccg agcgcagact     300
ggcgccccct gtctcagctt tgacatagtc cgggatcacc tgggagacaa ccggacagag     360
cttcctctta cactttactt gtgtgctggg acccaggctg agagcgccca gagcaacaga     420
ctgatgatgc ttcggatgca caatctgcat gggacaaagc ccccaccctc agagggcagt     480
gatgaagaag aagaggagga agatgaagag gatgaagaag agcggaaacc tcagctggag     540
ttggccatgg tgccccacta tggtggcatc aaccgagttc gggtgtcatg gctgggtgaa     600
gagcctgtgg ctggggtgtg gtcagagaag ggccaggtgg aggtgtttgc gctgcggcgg     660
cttctgcagg tggtggagga gccccaggcc ctggcagcct tcctccggga tgagcaggcc     720
caaatgaagc ccatcttctc cttcgctgga cacatgggcg agggctttgc ccttgactgg     780
tccccccggg tgaccggtcg cctgctgacc ggtgactgtc aaaagaacat ccacctctgg     840
acacctacgg acggcggctc ctggcacgtg gaccagcggc cattcgtggg ccacacacgc     900
tctgtggagg acctgcagtg gtcaccgact gagaacacgg tgtttgcctc ctgctcagct     960
gacgcctcca tccgcatctg ggacatccgg gcagccccca gcaaggcctg catgctcacc    1020
acagccaccg cccatgatgg ggacgtcaat gtcatcagct ggagccgccg ggagcccttc    1080
ctgctcagtg gcgggggatga tggggccctc aagatctggg accttcggca gttcaagtct    1140
ggttccccag tggccacctt caagcagcac gtggcccccg tgacctccgt cgagtggcac    1200
ccccaggaca gcggggtctt tgcagcctcg ggtgcagacc accagatcac acagtgggac    1260
cttggcaagt ggagcgggac cctgaggcgg cgacgtggga ggccgacccc ggactggccg    1320
acctcccgca gcagctgctg ttcgtgcacc agggcgagac cgagctgaag gagctgcact    1380
ggcacccgca gtgcccaggg ctcctggtca gcacggcgct gtcaggcttc accatcttcc    1440
gcaccatcag cgtctgaggc gtcccactgg ctctgatctt gcttcctgct tggaaactga    1500
agtcgaattg ggctcccctg gaaggggttc attcaggtct gttgactgag actggccggc    1560
ctgtgggctg ccgtgatgga ttctgtttga cgtattgttc tctagaaggc ctggctctga    1620
tccagtgacc cctctcacca aagaactcgg tttaaccagg gctctgtaag accactccca    1680
cccagagact tgtgtggcct ggtgtggcct gtgtgtcgga ttccttcctg tcagctgtga    1740
cccatttgac ctgtgtcccc agaacccagt tttttgtttg tttgtttgag acggagtctt    1800
ggtctgtcgc ccaggctgga gtgcagtagc acgatcttgg ctcactgcaa cctccgcctc    1860
```

5199

```
ctgggttaaa gtgattctct cagctcagtc tcccaggtag ctgggattac aggcatgtgc    1920
caccacaccc cgttaatttt tgtattttta gtagagacgg ggtttcacca tgttggccag    1980
gctggtctca aattcttgat ctcaagtgat ctgtccgccc cggcctccca gagtgctggg    2040
ttgggattac aggcgtgagc caccgcgtcc ggctcaggac ccagttttgg ctgctggttc    2100
ccagcagggg actcggggga tatacagtgg ctgcaccaaa ttggaggtgt gggttcctcc    2160
aacacaattt gcttctgccc gttgtcttcc tgccagctgg gtttggccag gatttctccg    2220
tgtgggggct acatgcgacc ctctcccctc ctccctgact ttagaggctg gtgctgtgtc    2280
gggaggaagg tcagggctcc tgagcagcaa taaaggacca ggaagaggcc tgaggtgtaa    2340
aaaaaaaa                                                             2348
```

<210> 6553
<211> 2537
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (61)...(992)
<223> similar to gi517093 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


```
<400> 6553
ggcgcagagc ggagatgcag cggcttgggg ccaccctgct gtgcctgctg ctggcggcgg      60
cggtccccac ggccccccgcg cccgctccga cggcgacctc ggctccagtc aagcccggcc     120
cggctctcag ctacccgcag gaggaggcca ccctcaatga gatgttccgc gaggttgagg     180
aactgatgga ggacacgcag cacaaattgc gcagcgcggt ggaagagatg gaggcagaag     240
aagctgctgc taaagcatca tcagaagtga acctggcaaa cttacctccc agctatcaca     300
atgagaccaa cacagacacg aaggttggaa ataataccat ccatgtgcac cgagaaattc     360
acaagataac caacaaccag actggacaaa tggtcttttc agagacagtt atcacatctg     420
tgggagacga agaaggcaga aggagccacg agtgcatcat cgacgaggac tgtgggccca     480
gcatgtactg ccagtttgcc agcttccagt acacctgcca gccatgccgg ggccagagga     540
tgctctgcac ccgggacagt gagtgctgtg agaccagct gtgtgtctgg ggtcactgca     600
ccaaaatggc caccaggggc agcaatggga ccatctgtga caaccagagg gactgccagc     660
cggggctgtg ctgtgccttc cagagaggcc tgctgttccc tgtgtgcaca cccctgcccg     720
tggagggcga gctttgccat gaccccgcca gccggcttct ggacctcatc acctgggagc     780
tagagcctga tggagccttg gaccgatgcc cttgtgccag tggcctcctc tgccagcccc     840
acagccacag cctggtgtat gtgtgcaagc cgaccttcgt ggggagccgt gaccaaaatg     900
gggagatcct gctgcccaga gaggtccccg atgagtatga agttggcagc ttcatggagg     960
aggtgcgcca ggagctggag gacctggaga ggagcctgac tgaagagatg gcgctggggg    1020
agcctgcggc tgccgccgct gcactgctgg gaggggaaga gatttagatc tggaccaggc    1080
tgtgggtaga tgtgcaatag aaatagctaa tttatttccc caggtgtgtg ctttaggcgt    1140
gggctgacca ggcttcttcc tacatcttct tcccagtaag tttcccctct ggcttgacag    1200
catgaggtgt tgtgcatttg ttcagctccc ccaggctgtt ctccaggctt cacagtctgg    1260
tgcttgggag agtcaggcag ggttaaactg caggagcagt ttgccacccc tgtccagatt    1320
attggctgct ttgcctctac cagttggcag acagccgttt gttctacatg gctttgataa    1380
ttgtttgagg ggaggagatg gaaacaatgt ggagtctccc tctgattggt tttggggaaa    1440
tgtggagaag agtgccctgc tttgcaaaca tcaacctggc aaaaatgcaa caaatgaatt    1500
ttccacgcag ttctttccat gggcataggt aagctgtgcc ttcagctgtt gcagatgaaa    1560
tgttctgttc accctgcatt acatgtgttt attcatccag cagtgttgct cagctcctac    1620
ctctgtgcca gggcagcatt ttcatatcca agatcaattc cctctctcag cacagcctgg    1680
```

5200

```
ggaggggggtc attgttctcc tcgtccatca gggatctcag aggctcagag actgcaagct      1740
gcttgcccaa gtcacacagc tagtgaagac cagagcagtt tcatctggtt gtgactctaa      1800
gctcagtgct ctctccacta ccccacacca gccttggtgc caccaaaagt gctccccaaa      1860
aggaaggaga atgggatttt tcttttgagg catgcacatc tggaattaag gtcaaactaa      1920
ttctcacatc cctctaaaag taaactactg ttaggaacag cagtgttctc acagtgtggg      1980
gcagccgtcc ttctaatgaa dacaatgata ttgacactgt ccctctttgg cagttgcatt      2040
agtaactttg aaaggtatat dactgagcgt agcatacagg ttaacctgca gaaacagtac      2100
ttaggtaatt gtagggcgag gattataaat gaaatttgca aaatcactta gcagcaactg      2160
aagacaatta tcaaccacgt ggagaaaatc aaaccgagca gggctgtgtg aaacatggtt      2220
gtaatatgcg actgcgaaca ctgaactcta cgccactcca caaatgatgt tttcaggtgt      2280
catggactgt tgccaccatg tattcatcca gagttcttaa agtttaaagt .tgcacatgat      2340
tgtataagca tgctttcttt gagtttttaaa ttatgtataa acataagttg catttagaaa      2400
tcaagcataa atcacttcaa ctgctcttct gtagttcttg gatttctttt ccctttttgac      2460
tttgaataaa tgtaaaatcc tttcagccag aaaaagtaaa atagaaacaa cctgtattaa      2520
aaatcttcca tagaagc                                                     2537
```

```
<400> 6554
ttttttttt tacaacaaa attagtcact tttatttaaa agaaacatta caaataagtg        60
tgcaaaatta aacatcatga ttaaatacac atgaaaggaa catgcatact ttacagcaac      120
atccacagag aattagctga ttacatgaca gtgacagtaa agaactaaag aaaccggcaa      180
aaccgagaac tcgctgctat gcaggtttta catgtttgca atctgaaatc aaaaccataa      240
aatagagttt aacgggaatt taagaaaatt aaatatatat cccaagtagc tgacaatgta      300
gagcccataa cctagttacc aaatgttaaa aaaagttatg tgcctctcct tcccaaaatg      360
ttagtgtgta gctattctta caaatgaggg gaggggagac ggtggacctg ggggctcgga      420
ggccagacca gggcatttcc ctccacacca gcgggaactg catggaccct cccagaccct      480
gctctggcag acgaccccga agttaaagga tgttttcccc ataacgaatg ttcaaagttc      540
gtgcatcact ctgctgttcc ctacacataa ccgggaaaca ggtttaatcc aaaatgtaac      600
caggagaccc cccgtccccg ccccgcacac gcctgaggtg tgacggctcg gcttctagag      660
tggcctggtg tctgcctcat tctaatggcc ccaacggaga cggggacgcc acgcacgggc      720
acaggtgacg tcacgggcac agatgaccac gttgcgggta cggagaagac cacaggctgg      780
gctcacacga ggggaaacat tcacactgtg ttctctctac agggtcaggt cgtttttctt      840
catgttcggg cgggaaaagg aattcctttc tccttttcta aggcaagctg ctggtgttgt      900
attcaatctg cttatcatgt aagaacttac atctgcacac ttgttcactc ccccgctgca.     960
gactcagtaa gaacgacgga atctgctgca aaaacaaacc tgaactcgtc caccctctca      1020
gcccagtccc caggtccgta tggagccccc gtcagtgtga ggatgcggcg gagccactga      1080
agctaacgtc acagctgaac tcatgggaac agccagtggc cgccagtcga gctggtcaca      1140
gccactgagt tacctacggt gccttgatga tgattctctc tttaatactg gaaatgggag      1200
tccttaggaa agcagacaac cacgtatggc ttcgagacca aggtccctgg gcagcccctc      1260
cagcccgtgg cccaggaggc ccctggggca ctggcaccag ccccgagagt ctgaaggcgg      1320
```

5201

```
caggtggtgg gtgctgtggc gcccccagct ggagtcacag cttgtcatcg gtcatctcta    1380
gaaactgcgc gtagacatct cggatgcact cccccttggg gttgaacagg aatttgtagt    1440
agctgccgtc tgcacaaatt gcaatgacgg cgtttggctc tgttccaaag gcacaaatgc    1500
acggagagcc tgagggaacc tgaaacttgg agaaactcca cttggaactg aagtattttg    1560
gaaggaaact ggctgaggcc aaactggact gtttattcct ttttggatct tcagctgcaa    1620
aaatatgcac tgtgccgtgg tcgctggata cgcagatgag ggacgcatcc tgattgaagt    1680
tgatgcagta aatattggct gcttgagatc ctcttcgcag ttcctggatt aaatgccctg    1740
atgaagtatc aaatattctt ataagcgtcc ctttctcgga tgcagttgca attcttgttc    1800
cctgcaggtt gagtgcaatg cagctcagga caccctcgtg tgcaggaatg tccacgggtg    1860
gcttctccgt gctggccagg tccacaagct gcacatggcc cgtgtgcgtg cccggaaagg    1920
ccaggaggga gttgttacta ttgggacaaa ggacacagag gcctttgggg ttatagcagg    1980
ttttcgaaga cgtgcaactg atggggggatt gtgtgtgaat gtgaacacct taatcatgga    2040
gtccaaaacc accacaattt tatcctcgcc gcagcttgac tgccttgact tctgtagaaa    2100
attctatttc aataacagtc ttcttcttca ggtcatccca gatcattact ttgttgggag    2160
ggtatttcgg cttttttcca ccaccaacta aagctaaata gttgcagcga aataacattt    2220
caacatggcc aactcctcct tctagaaatt cttgtttctc tttttctttt agtggatcag    2280
tgttatagac tcggaatcca ttttccatcc cacacgcaaa gcatccgtgg tcctggttga    2340
agccggcgta gagcagcccg ttgccgtgag ggttacacgg caggaggttc atggcgccgc    2400
cgtgctgggt cgccgctcct cagcgctgca tgcctctcac tggggacggc ggcctggtcc    2460
cttcgggccg gcgctgaggc cgccgacgaa a                                   2491
```

```
        <210> 6555
        <211> 2178
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1986)...(345)
        <223> similar to gi340448 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters


        <400> 6555
```
```
ttttttttact ctaccataaa ttactttcat tttaatgatc ctttacaaaa tggggccgca      60
tattgatttt ttttgacatt acacaggtgg gtaggttata ttacctgtga actcactgtg     120
gtgtaatgga aggaatgtca caaaatatgt cgctaaagag ggcactgagt ttgatagatt     180
tgggaccaac caacctcggg tgcttgggaa gcatcatttc cttagaaagt cagaagtcac     240
ccatgacatt tctaccccca gcccctcctt ccatgagtac actatgtgga cttaccacat     300
tttttactg tggttaaaag tcatcagcaa agtttctctc ctatgtggat tctctgatgt     360
caaataacat ggaagcaccc acagaaggct cttccacccc aataacgtgc.acagggtttt     420
tctcttgcat gattttttgg atgtcaaaca aagccaggc tctgctttcc ggctgccctg     480
cctttgctcc gcctgcagag ctctttctgg agttcgggtg ttgatgctga accaggtgtg     540
agttcctgct cgaggattgt tcacgccgcc ggcttcgccc atggggctgc tcctctctgg     600
tgtgagttat ctggtgccgg atgaggtgag agctctgaat gaaacacttc ccacactgat     660
tacatttgaa gggtctgtcg cttcggtgag tcctctcatc ttgactcaaa ggtgggtcac     720
aggcccaggg cttctgtcca ttcatgcttt gtgagagctg gcgtctgctc aaagatcagc     780
ctctggcggc actcaaaggg cttctcccccc gcgtgcttcc gctggtgctg gccagggat     840
gagctgtgcc tgaagccctt tccgcagtgg gtacacttcg atggcctctt cctcgtgtga     900
gttctcaggt gcaggaaaaa ggcaagtggt ccgagagaag ggattcccac acacacttgc     960
aggtgtatgg cttcttttccc aagtggtgtc cctcttgtgc ccgccccaag ggaagagtat    1020
```

```
tggttgaagg cccttcccac agtccttgac actcataagg gcttttcccc gtgtgaatcc    1080
tccgatggac ggtaaggagt gtactatggc acaaagactt cccacattcg gcacacttgt    1140
agggcttgtc tccagtgtgg atgcgctcat gctggacgag ggaggagttc tggctgaagg    1200
ctttccccaca ctccttgcac atataaggtc tttctcccgt atgaatcctc ttgtgcacgg    1260
tgaggtgtgc gttatggtta aacgacttcc cacagtcagt acatttgtag ggtttgtcct    1320
gcacctggct ttttgtgagt tccgtaattg gaatggcctg actggaatct ctgtgacagt    1380
cactgttttc accgggctgt tttcctgggg agcctgtctg ctgactgact aagctggagt    1440
tatgttctga gtctgtaatc tgtgagtcgt aagtatacaa atactcccct ctagagatct    1500
ctgggaatgg atttgggctt gaactcagga cgcagttttc cctgagtctg agagttttgt    1560
aggcttgatc ttgaactggt gcttccttga ggccaaattc caactgcttc aagttattct    1620
gctccttgag tgccagactc tggctctgac actccctgtc tttccctaac gtggtgggat    1680
aaggagcatc tgtcgggaat ccttcccttc ccgtgacatg ggatggctcc tcttcaggca    1740
ggccctcttc cttgcgtgat gcttggcttt cagatcgagg ctcccaggct ggatggcagc    1800
cctgggtggt tcctctctca gccacccata gctcggtccc ttgctccagc tgggagatga    1860
cttcaggctt cggaagctca ggacctatgg agagcaggtg accaaaggtc tccagcatca    1920
cgtcacggta gaggatcctc tgggtagggt ccagctgccc ccattcctcc tgggtaaagt    1980
ccacagccac atcccggaag gtcactggtt cctgaagccg ggccgccggc ggccccacag    2040
acatcactcc cgctacccct tcgtcctcgg ggtccatgct ggatcgccca gtgaaggaca    2100
gcgcctgagg tgatccccag accagagagg cactccagcc aaagggacca cccgactcgc    2160
cgaactccgg acacgaaa                                                    2178




    <210> 6556
    <211> 2361
    <212> DNA
    <213> Homo sapiens

    <220>
    <221> misc_feature
    <222> (1)...(2362)
    <223> n = a,t,c or g

    <220>
    <221> misc_feature
    <222> (695)...(1542)
    <223> similar to gi5596705 in the genepept database release 114,
        Run with FASTXY 3.3t00, default parameters



    <400> 6556
tttcgtcctt gggttccgct gtaggggagg tcccgtgcga aagaatgagg agatcctggg      60
gccttaccta ctagcggaat cgactgaaga gacgcctgcc agtgcgggag gtaggaagct     120
cgatccccaa agaaaagagc gagtgggcag gcagctgcga gacagaaccg gagtgtgcag     180
ggtccctaga ggccggttcc tggtctgtgc tgctctcctg gaagccatgg tacaggcaga     240
gctcagggcg atccccaggt gagggcagcg gctctgcctg ggattccacc gcagtacaac     300
cgggtagatg cggggtggag aagaaaggat gttgcctgca ctgctcgcca atagcaccct     360
gagaggctac atttgcagaa gcagcagcag cagaagacac agcgccggtc caggaggcgg     420
ctcgagctgt tcgtaaagtc gcccgacagc ttttttctccg tagtatgcga gttgacaaaa     480
cagccagaga acagggctcc ccattacaat ctttttcgaga tctttttccct tgctaaccgg     540
atctgatttg tgcgaaaaca tgccttgcac ttgtacctgg aggaactgga gacagtggat     600
tcgaccttta gtagcggtca tctacctggt gtcaatagtg gttgcggttc ccctatgcgt     660
gtgggaatta cagaaactgg aggttggaat acacaccaag gcttggttta ttgctggaat     720
```

```
cttttttgctg ttgactattc ctatatcact gtgggtgata ttgcaacact tagtgcatta      780
tacacaacct gaactacaaa aaccaataat aaggattctt tggatggtac ctatttacag      840
tttagatagt tggatagctt tgaaatatcc cggaattgca atatatgtgg atacctgcag      900
agaatgctat gaagcttatg taatttacaa ctttatggga ttccttacca attatctaac      960
taaccggtat ccaaatctgg tattaatcct tgaagccaaa gatcaacaga aacatttccc     1020
tcctttatgt tgctgtccac catgggctat gggagaagta ttgctgttta ggtgcaaact     1080
aggtgtatta cagtacacag ttgtcagacc tttcaccacc atcgttgctt taatctgtga     1140
gctgcttggt atatatgacg aagggaactt tagctttttca aatgcttgga cttatttggt     1200
tataataaac aacatgtcac agttgtttgc catgtattgt ctcctgctct tttataaagt     1260
actaaaagaa gaactgagcc caatccaacc tgttggcaaa tttctttgtg taaagctggt     1320
ggttttttgtt tcttttttggc aagcagtagt tattgctttg ttggtaaaag ttggcgttat     1380
ttctgaaaag catacgtggg aatggcaaac tgtagaagct gtggccaccg gactccagga     1440
ttttattatc tgtattgaga tgttcctcgc tgccattgct ccatcattac acattctcat     1500
ataaaccata tgtccaagaa gcagaagagg gctcatgctt tgattccttt cttgccatgt     1560
gggatgtctc agatattaga gatgatattt ctgaacaagt aaggcatgtt ggacggacag     1620
tcaggggaca tcccaggaaa aaattgtttc ccgaggatca agatcaaaat gaacatacaa     1680
gtttattatc atcatcatca caagatgcaa tttccattgc ttcttctatg ccaccttcac     1740
ccatgggtca ctaccaaggg tttggacaca ctgtgactcc ccagactaca cctaccacag     1800
ctaagatatc tgatgaaatc cttagtgata ctataggaga gaaaaaagaa ccttcagata     1860
aatccgtgga ttcctgaaca gtatggaaaa gcaaactgtg caactactac attatatcat     1920
tacctggtat cccatggatt ttgtgcttgg gacagaccat aaatgatgga aaatgtcaac     1980
acaaaaatag ctgaaagcca ggtacaacta ctgcatttat atatgtaagt tttgtatatc     2040
aaaaataatt ggtctaaatt tcctagactt agacttgatt tcttaacatt agggtatcgc     2100
atactcaaat ggtagacaat gaccccaact aaatcttcct gatgttacac tgctttatca     2160
agaggatgga ctttttttttt ttgagacaga caaacttttg gctctgtcac ccgggctggg     2220
agtgcagtgg gcgcaatctc ggggtcactg caagctctgc ctcccaagtt catgccattc     2280
tcctgcctca gccttcccaa gtaggctggg ggactacagg gcaccctggc cacccatggc     2340
ccaggntaat ttttttttttt t                                              2361
```

<210> 6557
<211> 1006
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (27)...(671)
<223> similar to gi5052364 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6557
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ccgttcgacg atttcgtcga aggactatgg caggggagaa cttcgctacg ccgttccacg       60
ggcacgtggg ccgcggcgcc ttcagcgacg tgtacgagcc cgcggaggac acgtttctgc      120
tttttggacgc gctcgaggca gcggctgccg aactggcagg agtggaaata tgcctggaag      180
tagggtcagg gtctggtgta gtatctgcat tcctagcctc tatgataggc cctcaggctt      240
tgtacatgtg cactgatatc aaccctgagg cagcagcttg taccctagag acagcacgct      300
gtaacaaagt tcacattcaa ccagttatta cagatttggt caaaggcttg ctaccaagat      360
tgaccgaaaa agttgatctt ctggtgttta atccccccta tgtagtgact ccacctcaag      420
aggtaggaag tcacggaata gaggcagctt gggctggtgg cagaaatggt cgggaagtca      480
tggacaggtt ttttttccccct ggttccagat ctcctttcac caagaggatt attctattta      540
```
```

```
gttaccatta aagaaaacaa cccagaagaa attttgaaaa taatgaagac aaaaggtctg      600
caaggaacca ctgcactttc cagacaagca ggccaagaaa ctctttcagt cctcaagttc      660
accaagtctt agcatacagt gtgtgcccag aactactgga aactgaatgc atttagcata      720
ttttgaaact gaagtcattc attagatgga tttacatcac tggcttccct ggttctcaag      780
cctttggatt cagactgaat tataccacag gccttcctgg gtctgcagct tatagatggc      840
agatcatggg acctcttagc ctccataatc atgtaagcca ctttcttgta gtactggtaa      900
aagatatatt agaccaatct ataaaacagc tagcctatgaa agagaaaggt gacaggcaca      960
agcctatgca aatagagaag ggttcctgga gagcctctga cttgcc                    1006
```

```
<400> 6558
tttttttttt ttcagtggga gaaagaatgt ttaataaatg gtattgagac aaatagctat       60
ctgtttggaa taaaaataaa attagatcct taaatcttgt accatataaa aaaatacata      120
ttactgatgg atccaagagt taaaaaataa aaatgtaaat atccaaaatt ttacatacaa      180
ttttagggggg tacacagatt ctttgaagcc cacccatgga tcccagatta ttatctataa      240
gaggaactgt taattataac ctctattaaa atctcaatgc caaatactag ctgtatttaa      300
gtcacatgca acaaatgaaa atgaacacat taactcattg ttataacttt ataaaatctc      360
caaactggac tagaaacaga ggcatgtcaa tacaaatggc cacgtgactt aaaaaaaaat      420
acaccaattt aaataagttt gaatgcatac tgtacacgtg tatccatgtc tgttagcctt      480
tcagaaatat aaaatcagtt aaatctgtag tacttaaaat tcaacatatg taacgttatt      540
ctcaaacttc attaaaataa taaatataca agttatgttt aatatgagta actgcaacat      600
acttaaacat ctaaacatat aatagggaat tctatattaa aatgcaatac tttcacctgc      660
attaatctct tacacaatga aaaaatactt gcagataatt agcattaaga atgcaaatat      720
atttttactg tggaagaaaa attccagtaa taaggttaga aatcatatat ctgtataatc      780
tacaatgaag ctgtagatag tctacattat gatattctat cttaaaatga aaacaattca      840
atatttaagc ttacaacaaa tttactcaag gcaaaatatg tttattacag aacaggatct      900
taaagtaagc aaggcaacat gagatcaacc attttagatt ttttttttaat gaagtgtagc      960
tttgaaattg taataaaggt gaacataaat tctaacatgc tcttctcttc ttataaatgg     1020
gatgatgtag aaaagcaaag cttcaatgta tagggattgg aaccattcgg cactcttatc     1080
tgatagtgat tcagtgccgt aagggcttct actgcatcag ttttgcactc ccattctaat     1140
agcccagaaa gtgttttggc tgaaggtttt gcatcaaaca ctttatattt gatgaatgta     1200
agaacttcat ggtcattaca caactttgtg aaggtctctt ctgtgacaca caatggaaca     1260
ttataataat gcaaaacaca ggagggtggc tggattatat tcttagatgc ttggccagca     1320
cttgtaaagc gattattttt gctcattgca aaatctttgt agctgctggt accatcctcc     1380
agctcaaata tttgacttgg aacaactgaa tgttgtttag acacgcaaac attaagtctt     1440
ttcccaaata atttgacatt attaaggtgt gtgacagctc tttctacagc atactcatca     1500
cccatttcta ccagtgctgt accaggaatg gtcttcataa attttacctt ctcaatattt     1560
ccatataagc agaacaggtt gaagactctt gaacaattca tttttagttg atgtaatcca     1620
ctaaccatta caactgaacc agagggattt cctccatgca tgtaagagga agaagcctgt     1680
ggtaatggat aagcaacaag ttcaggtgta tctcgagagc ccattctgta acgacttggt     1740
```

```
aaaggcaata atggaccatg ggatccatag ccatcatgtc taaacgaaga agggtgttct    1800
cccaaaatgg cttgtctctg gcgacccttt cctctatctc gtcttcccaa atatggtttta   1860
gtgtagtccc aactgtcatt gtcattccta ataacattta gacgagttgg ccgtgcatat    1920
tcaattttta gtgtgcaaca tccagcatat atatcagctc cattgagtgc tgctttagct    1980
ttctgggcac aaaggactga ttcaaactca accattgctt gtatcccatt tctcttgaat    2040
ataacaatac gttgcacttt gccaacaggg ttgcatacag tatataaaac atccactgta    2100
attggataaa gcggattctg aattgagagc agaagaactt tgttgcctcc tgatggatca    2160
tcagtatttc ctggccgagt gatccttttg cttgtagaat agttgaaaaa agcctgttga    2220
ccagcaatgt acacgggttc atctgcagca aatgtcacac attctttggc actatctatg    2280
tttttcaaatt ccactagagc ctgtcgttta aatggcatca tcatcacata gcatattgtc   2340
ccaaattttt ccagcgcttc cacgaggtct gcttccacca cagattcaca gagtcctcga    2400
acatggacga cgggtgaaac agaaacttta tgatgacttc cacctgcctc cggctgagag    2460
aagctccggc cgccgccgcc gccatcgccc ccgccccggg gcgtcgcttc ccggcggttc    2520
tcgccttcct cggccgagta gtcgatctcc ccctcctcgg tcttgagacg cttggcctgg    2580
ctctcgtact cccggtcctc ctcgtacgtc tcccgagcca acattcag               2628
```

        <210> 6559
        <211> 1631
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (40)...(1053)
        <223> similar to gi5306062 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6559
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ccggccgtcc cgggtcgacg atttcgtgcg gaagcatcca tggcggaggg cggcagccca     60
tacgggcggg cagggccggg ctccgcaggt caggtcgtaa tctgaaggag tggctgaggg    120
agcaattttg tgatcatccg ctggagcact gtgaggacac gaggctccat gatgcagctt    180
acgtcgggga cctccagacc ctcaggagcc tattgcaaga ggagagctac cggagccgca    240
tcaacgagaa gtctgtctgg tgctgtggct ggctcccctg cacaccgttg cgaatcgcgg    300
ccactgcagg ccatgggagc tgtgtggact tcctcatccg gaaggggggcc gaggtggatc    360
tggtggacgt aaaaggacag acggccctgt atgtggctgt ggtgaacggg cacctagaga    420
gtacccagat ccttctcgaa gctggcgcgg accccaacgg aagccggcac catcgcagca    480
cccctgtcta ccacgcctct cgcgtgggcc gggcagacat cctgaaggcc ctcatcaggt    540
acggggctga tgttgacgtc aaccaccacc tgactcctga tgtccagcct cgattctccc    600
ggcggctcac ctccttggtg gtctgcccct tgtacatcag cgcagcctac cacaacctcc    660
agtgcttccg gctgctcctc ctggctggcg cgaaccctga cttcaactgc aatggtcctg    720
tcaacacaca gggattctac aggggctccc ctgggtgcgt catggatgct gttctgcgcc    780
acggctgtga ggcagccttc gtgagcctgc tggtagaatt tggagccaac ctgaatctag    840
tgaagtggga atcgctgggc ccagagtcga gaggaagaag aaaagtggac cctgaggcct    900
tgcaggtctt ttaaagaggc cagaagtgtt cccagaacct tgctgtgtct gtgccgtgtg    960
gctgtgagaa gagctcttgg caaacaccgg cttcatctga ttccttcgct gcctctgcca   1020
gaccccataa agaagtttct actccatgag tagactccaa gtgctgcggt tgattccagt   1080
gagggagaaa gtgatctgca gggaggtgga caccgagccc tgagtgctgt gctgctgctg   1140
gtctcctgat ggctgttgct gcagaagatg tcctcgtaga ctgtcattgc tcctcacaca   1200
catgaagacg tgcccgcttc ccctttgctt tctgccatga ttgtaagttt cctgaggcgt   1260
ccccagccct gcagaactca gcccgggggc acaggcacgc agaagagact ttcccacagc   1320
```

                                5206

```
ggttcccaga gccctggatg aggcgtcctc caaaggatta tgtcaccaag tttctgcagg    1380
tgggcacggc ctgacgactg gattgtccaa caaaacacag aaagtgtaga caagagaaca    1440
gcagaaagtg acgcctgcag ccacagagat gtgctcccag tctccctctt ttctgactgc    1500
tgggggtgca caccacagcg aggcccaagg gctgtgatgg aggcctagga tggaaggtgg    1560
ctggtccctg aattacttct aggagaggca ccatctgctg agcaggaacc cctgcctggg    1620
acagttgcaa g                                                        1631
```

<210> 6560
<211> 1684
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1565)...(752)
<223> similar to gi3875449 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6560
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tttttttttt ttggagaaaa aaaactttat tggtattaca gcaaaaaatt cacataagat      60
acataaatta tgatacctca aagctagagg caaataaaat acacctaatt atacaaattc     120
tatacaatta aatcaagaac attaggaaaa ttttttttgca aaaatgtcaa aaaaagattt    180
gatctggtcg ggtatagtgg ctcacacctg taatcccagc actttgggag gccaaggcgg     240
gtggatcacc tgaggtcagg agttcaagac tagtctagcc aacttggtga aaccccatct     300
ctaccaaaaa tacaaaaatt agccaggtat ggtggtgtgt gcctgtaatc ccagctacta     360
gggaggctga gccacgagaa tcgcttgaac ctgtgaggtg gaggttgcag tgagccgaga     420
tcgcaccact gcagtccagc ctgggggaac agagtaagac tccatctcaa gagaaaaaaa     480
aaaagatttg atcaaaccaa gatttcagaa aaacaaaacc aaaaacactg tgacttggtt     540
aacatttatt taattttggg aacacagtaa aaaacagaaa caaaacatct atttcttcac     600
aattgtgaaa atgtctggct tgaaacacct ttgacattta tctcactttc gctctcaagt     660
ttcaggctgc tgcatccatg gcggctagct ggcagtgatg ctcttttctg ctctcaaggt     720
ttctttgggc ttggaatagt tccacggccg tctatttttct gtgaatccat aaagttttct    780
aagggccact cgagcagcct cttcttctgc aaccaatact gtttccccag gtccttctgc     840
aatcaacttt ttatcacagt ataagccaac aaaatacaaa ggcaaagctg tggggccac     900
cagactgcct agtaagtctt gattcaggag ctgaaacatt cctttttcttc agttcttcta     960
ccaatagccc catggqattt attatcttcc acatctcaaa gagctctttt ccagtcattt    1020
gagtaattaa gaagtccctg atgaaaagtg cagtcctctc aggtccactg ctctgtaaca    1080
gggctccaat aactgcaaag aaagtctgct gtaacacagc tgggggcact gggaattctt    1140
cactcagtgt taactgctcc acagccaagt ttctagccac gtgacacacg acttcctcac    1200
cagtgagaaa gtcaacaaga ttttttatgc cttcagtggg catgtctggg tactcgtctt    1260
caagaaactg tgtaaggcaa gtctgtgaaa aagatgtccc ttgttcggat agttcttgat    1320
tactttttaag attcagaaga acagcttctt tctctatccc aagttgttgg cgtttggcct    1380
cctcacttttt aatatagcag ctattaacaa atgcagtttt gagaagatct aaggaaaagt    1440
tttcctgtaa ccgatgtcca aaagcttgta tttctgcatg gtaatcccag ttcggcttct    1500
ctgaacggcg cacgggcggc ggcggcacc gcagaaggcg ctgccgctct aactccttct     1560
ggaagcggaa ggcggcgcgg aatcccttct tcactccccg aaccggaggg accagcttgg    1620
gggcgactgg agccaggagg cagcgatgtc cctgctgcag caatcttacc agcccggacg    1680
cccc                                                                1684
```

<210> 6561
<211> 2012
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2013)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (231)...(619)
<223> similar to gi3947625 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6561
accggccgga ttcccggtcg acgatttctg aaggcgggag ggaggggggcg gcacctccgg   60
tcggctccag tcgctccgga ggaaggaaga agaggacgcc gggcgcgcag ctcggtgctg   120
attatcacaa ctgtttggtg acctacttca ctgacctgtg aggattcctt cccttcaagt   180
actggattct tgatctttct gcatcatcaa gaatggaaac agactgtaat cccatggagc   240
taagcagtat gtcaggattt gaagaaggtt cagagctgaa cggttttgaa ggaactgaca   300
tgaaagacat gaggctcgaa gctgaagcag ttgtaaatga tgttctcttt gctgttaaca   360
acatgtttgt ctcgaaaagc ctgcggtgtg cggatgatgt ggcctatatc aatgtggaaa   420
caaaggaaag aaacagatat tgcctagaac tcactgaagc agggctcaag gtggtaggct   480
atgcttttga ccaggtagat gatcatttac agactcccta ccatgaaaca gtctactcct   540
tgttggatac actcaggccc cgcctaccga gaagcatttg gcaaacgcac tgcttcaaag   600
actggaagct ttgaaaagag atggacagtc atgactacac ttttttccttt cagaggggct   660
ggtgctggta cagaatgttg atataaagct taaaattctt gcatatggtc atagaaaatg   720
catctttggt tttgtgtttt tatcacttgc ttccaactta ggcttttggc tcagaagatt   780
attgaataat gatttgtctt agtttctgtt tcagtaaggg aattctgagg ccgttgctat   840
gataccatca ttaagacatt cacatgtctt catataatat ctcttcattt caaatcctaa   900
tcactatttc atactattac agggctttga tgctgccagc actgtctttt acataggaaa   960
ttctagattt gcacagtaat agaggaatta gaagtaccta actatacact ttgattcagc   1020
ctgctaaatc aggggttcaa tactagcttg gacaaacttt gtagtaatta attgctacca   1080
gccttattgg aaacaaatta tcaactagtt tcccctgcac aaattttgaa attcactgct   1140
tcacttaatc tatttatatt actaataatg gattaataaa gatgaattaa ttatatatta   1200
cttaactagt attaaatgaa aaacagggac tgaaatagtt ctgtattccg tgtttgcaac   1260
agccagccaa ctaagcagag gataaaccgt tagcaaatga atgtaataat tactcatttc   1320
caagatatct aagcacataa gcaaatacag gaacagactt cattctttt cttaacaaaa   1380
aagcatcttc agtgtgtgat ttaaaagaaa gaagattctg gtttcctaga aaacaatatt   1440
ttggcctgtg ttgattctta ttctgaatgt gtgtttacat aatgtacagt atatattcag   1500
aaagtatttt tgcttcaacg tttactttct atgatgtagt gctttggtat tcctacagca   1560
ccccaccttc cccaacagat gtacagtgtt ctgtctccat tcgaaatcta caatgtaata   1620
tgagtgcatt gtatgggttt gaaaccaaag gatgaatgaa gcattcagag acttaatatt   1680
tgaaaaagga atacgtcacg tattttatat tttattacag gtactgatat ttataaattt   1740
aataaactgt accatgctgc tgcatgtttt caagtacatg ttgaacagta aggattgggg   1800
agttgttttt taatggtcac ctaaagcagc tgctatagaa atgttgaact aaaattttgc   1860
atctggtcat accctcatgg catttaatca tttncagata attttccatc attaataaaa   1920
aacaggaact tttaggcncc gaagatcagg ngaccagngc caaataaagg tcngttgtgt   1980
cncaatccat gccaggactc cgtggaangc tt   2012

```
            <210> 6562
            <211> 1847
            <212> DNA
            <213> Homo sapiens

            <220>
            <221> misc_feature
            <222> (466)...(1745)
            <223> similar to gi3885500 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters



            <400> 6562
tgactctggg ctagagacct ccccaacaga gctgaggcca aggccgactc cccctctcaa      60
atggcgtggt ctgggcctat gacggcccct gcagtggagt ctgtactggc tgcggggggac     120
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cctgaagaaa aggggcagac tcctcacatt ccagcacttt cccacctgac tcctctcccc    1800
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            <210> 6563
```

5209

<211> 6309
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(6310)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (117)...(3055)
<223> similar to gi3043658 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

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gggctcccgc gtggccgtct cggcgcctgc gtgacctccc cgccggcggg atgtggcgac   180
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atgagtatat cgattttgag aaaattagaa aagcccttcc tagttcagaa gaccttgtaa   660
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```

```
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aaaaaaaaa                                                            6309
```

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```

```
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gggctgttgg gtagaagtgg tggtggggggg gacaaaagac aaaaaaatcc accagagctt    1680
tgtatttttg ttacgtactg tttctttgat aattgatgtg ataaggaaaa aagtcctatt    1740
tttatactcc caaaaaaaaa a                                              1761
```

```
<210> 6565
<211> 950
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (913)...(745)
<223> similar to gi4467884 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters
```

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attgtcgggc ggatccccgg acggagggct aaggttgtgt ggaaggcgct gctccccgga    360
tggcgaccgc agatactccg gccccggcct ccagtggcct ctcgccgaag gaagaagggg    420
agcttgaaga tggggaaatc agtgacgacg ataataacag ccagatacgg agtcggagca    480
gcagcagcag cagcggcggc gggctgttac cctatccgcg gcgaaggcct cctcactcgg    540
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agcagctgag gaatttctca cgctcgcggc acgcgtctga gcggggccac ctcaggggac    660
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gaggagtggg tgagcgagga ggcaagccgg ggtgcagacc tcctctggga ggaggagcag    900
gatccgggtt cagcagcagt cagagctggc gagagccctc tccacctcgg             950
```

```
<210> 6566
<211> 1618
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(1338)
<223> similar to gi5689427 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters
```

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tgcaaagagc catggggggtg ttgatgtcca agcggcagac agtggagcag gtgcagaagg  180
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caggtgagct gccagggtcc cgccgtggca ctgtagaggg ctccgtccag gaggtacagg   300
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cagcctggga gcggctccga gatgggcgcg gcgtggagcc tgaggagttt gacaggacaa   420
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ccagaaatct tgcctgggag cccagagagc ctgtttttca cgattgaga tgtgtgatgt    540
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```

```
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5216

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gcatggccag  ccagtggcaa  gctgccgccc  ccactctccg  ggcaccgtct  cctgcctgtg  3060
cgtccgccca  ccgctgccct  gtctgttgcg  acaccctccc  ccccacatac  acacgcagcg  3120
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5219

<210> 6570
<211> 2730
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2280)...(1148)
<223> similar to gi5921491 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6570
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atacagttga aaaaattcaa tgatgtctct cctgcaggag aaattcacag catccccagg   180
gtcaacatga aatctggccc tgtccccgcc actgggggct ccccaggcct gcgttcctga   240
taaactggga caggtttcc aggcactgac caactatcca ccaagggtcc tctgcctcca   300
agacagaccc tgaatcaata gcagcaactt tcccatattt catgtaggga tatgtggagg   360
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ggtgccatga ggcaggttca gtgattgatt ggtcttgcct gctgcagagg acctggccag   480
ctccagaagg gtcactcatc aggtcctgca aaggtctgta tcattaatca gtgtcatcag   540
tgtcctcaga agacactagc agagtccagg gtgatgcgtt cagccacaag cacaaagact   600
gcttttttcta aagagcagga tgaggtgaat gtgggaacgg aaagcagttg tcacgaaggc   660
tgtgtggctc tgctggggga gaggcatcca cagtctgtgc caaggaggta cctcaccctg   720
tgcagcagga gcgttaaggc caaaaaacaa aagggggccaa cagaaaacag ctcaggtgat   780
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tggtcagact cccaaccacg ctgaggcagg cccttacctt ggattgcctc atgggcctcc   1080
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gtttccagtc ccccgtcagg accacccgct cgttatggca gaagagctct ttgatccagc   1500
gagccatgcc agggttcact gacatcaggg agcctgggaa gtggcgccgg tgggacacag   1560
tccagtcggt gggggagtgg aagcagtggt agtccccagg ggccaggtag atgacacagt   1620
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cgccgaaggg caggaggtag tagaggacgg tcaagggcca ggagcgcagt ttcagagcgg   2160
gtctggacat gcagctcagc tgccccagcc tccgcctcag ggccagctgg gggaagtgca   2220
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ggcgcaggga gggcggggcg aggctcactc gatcactccc tttgttttcc tctttcctcc   2340
ccttcccccg agccagcaga tctcctgtgc tgtcactgct ccagggcctc tgcctctgcg   2400

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aggctggttg gtggcgccgc ttcctgggtt tggttcagtc tcggtggctc acagggtgca    2460
gaatagaggg tcagggccgc gcccggcagg agataagatg tggaggaagt gagctcacgc    2520
agcccgggcc gtgcccacgt ggggacggaa aaaaagccca cgactcgctc aaccttgtcc    2580
gcggggctcc tcaggccggg gccgcgtcgt cacagctggg agagcccacc tgcgaccgaa    2640
ggccctagaa gggcacccc acccggcact ggccctctga gcgggcaggg tggggcgcct     2700
ccctgagaag tcacctgggg ctccacgaaa                                     2730
```

<210> 6571
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)...(339)
<223> similar to gi5106994 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6571
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ctgattttca tatttccaaa tcagagtcaa ctgtacattt acacagaatt gtctttgcat   180
gaagcccaag agggaacagc ataaaaatga gtgtttctgt agccccttta tttttgctga   240
tcaacagttt gttagaaaag cagctgcagg tatgttacct aaggtctgag acagtagaag   300
agtcaaaggt gtcatgaatt cacctgtaaa caaccttatg cctgaacatc agctaattct   360
ggaggaagtg gagtcttagg atgcttgctc tcaaagtgct gcttgaaggt cttagggtct   420
ggcatttgtg tccaaccaaa aattgtgcca aagagagcct acagacagtg caggtatata   480
ttaaggcagc tttggcagca gccttttggt catgtccttg tttcttcttt tgtccagctt   540
gcttttttggc atttttctgc tgagactgaa ttttctgctg tccacgagcc atatccgggc   600
cgggacagtc ttgcgtcgga gagacagtgc agcgcgagag ggccgggaga ggacgccgga   660
gggaaaggaa gggggagcgc gcccagcacc gcttgggcct cctccacccg ctcaggaggg   720
gaaacacgag agccgggagc acaacagcct cgcacgcccg ccgccgccgc gcgcccgccg   780
ccgcacgaaa                                                         790
```

<210> 6572
<211> 2329
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1652)...(797)
<223> similar to gi4680699 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6572

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tttacccttt aaaacagatt caagtgattc aaattccagt tacctctaag ttatattctg     120
ttaacaacca ccttgtataa attggtttca taaataaaaa ctgctcttaa atgattctgt     180
cagtggatgt ctatccacaa gctttccagc ctggtctgct ttatgtgtac atcctgaaaa     240
tttgccaaaa tagcagcaac aactgatgat atcataggga aaaaactcac tgccacaaga     300
aaccaagcat tgttgagtca acttcttttt ggtcacttgt tttatactta ctagataagc     360
caaaagacct gtttgttaca caaacatgca tgcatccagg tattaatcca ttctcacact     420
gctatgaaga aatacccgag actgggtaat tataaaagag gtttaatttt ctgactcaca     480
gttccacatg gctgggaagg cctcaggaaa cttaacaatc acggtggaag gcacctcttc     540
acagggcggc aagagtgaga atgagagcca gtaggggaaa tgccaggcac ttataaaacc     600
atcagatctt atgaaagctc actatcatga gaatagcatg agggaaactg cccccatgat     660
tcaattacct accacaacac ctgggaatta tgaggattaa aattcaagat gagacttggg     720
tggggataca tccaaaccat atcaatccat atatggctga aatttacatc agacaatggt     780
aaatatctat gttcaaagtc cattgatgct ttgagattct gagctatttt ctggtatgga     840
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ctggtcgtcg gctccaaccc tgggctaagc caacacaaag tgtctcctcg gtaactgctg    1020
gttcttctcc tcgtattctt tgattttgaa caatctccag aagctgctgg gctgcttggt    1080
ttacactcat ataccgtgga ggttcataga tcttccttcc cttgattaga tttttccaaag   1140
actgctcctt tactttgatg tctagtaaac ataatgtgtg catgccattt tgtctgttct    1200
tcttcacttt gtcaaagaag ctttctggtc tccaagtgtc tgtccaaaaa acaatagaaa    1260
ctgtctctcc aaacttatat aactgtaaac cacagcagcc tacagcattc attatggagg    1320
cattgtgaat aactctataa ggaattccca gctttgttgc tcttagaaca agatcactgt    1380
gtgttgtggc cccaaatgga tcaccaacca caaggaatgc aacatcactg atatcagcat    1440
cctttaaaat attatctgct tcttgttcca cttcttctct atcagcaaca accaattttc    1500
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gcctcaggga aaggatcggg cgtgctcacg agccctctaa cccatggctt aaacacccgc    2040
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tgggaacata agatggctta tcaatctaag atggccttcc tgtccttcgg attgaactga    2220
aaccatccct gattccaggg ataggtagat gatccgggtt tggacaatca aaatattgaa    2280
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```

<210> 6573
<211> 4562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (224)...(3191)
<223> similar to gi5689515 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

5222

<400> 6573
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cccccggacc cgggcaccat gagccaaggc ccccccaca ggggagagca gcgagcccga      180
agcaaaagtc ctccacacta agcggcttta ccgggctgtg gtggaggctg tgcatcgact      240
tgacctcatc ctttgcaaca aaactgctta tcaagaagta ttcaaaccag aaaacattag      300
cctgaggaac aagctgcgtg agctctgcgt caagcttatg ttcctgcacc cagtggacta      360
tgggagaaag gctgaggagc tgctgtggag aaaggtatac tatgaagtta tccagcttat      420
caagactaac aaaaagcaca tccacagccg gagcactttg gaatgtgcct acaggacgca      480
cctggttgct ggtattggct tctaccagca tctccttctc tatatccagt cccactacca      540
gctggaactg cagtgctgca tcgactggac ccatgtcact gaccccctca taggatgcaa      600
gaagccagtg tctgcctcag ggaaggagat ggattgggca cagatggcat gtcaccgatg      660
tctggtgtat ctgggggatt tgtcccgata tcagaatgaa ttagctggcg tagataccga      720
gctgctagcc gagagatttt actaccaagc cctgtcagta gctcctcaga ttggaatgcc      780
cttcaatcag ctgggcaccc tggcaggcag caagtactat aatgtggaag ccatgtattg      840
ctacctgcgc tgcatccagt cagaagtgtc ctttgaggga gcctatggga acctcaagcg      900
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gcaaagcctc ctacagccca aaagcagctc cgtggactca gagctgacct cactttgcca     1080
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caccaccaac cctcatacct cggccagcca caggccttgc gtcaatgggg atgtagacaa     1980
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        <210> 6574
        <211> 5103
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (73)...(2266)
        <223> similar to gi36484 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6574
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ctgcagaaga cgctggagca gttccacctg agctccatga gctcgctggg cggcccggcc      180
gctttctcgg cgcgctgggc gcaggaggcc tacaagaagg agagcgccaa ggaggcgggc      240
gcggccgcgg tgccggcgcc ggtgcccgca gccaccgagc cgccgcccgt gctgcacctg      300
cccgccatcc agccgccgcc gcccgtgctg cccgggcccct tcttcatgcc gtccgaccgc      360
tccaccgagc gctgcgagac cgtactggaa ggcgagacca tctcgtgctt cgtggtggga      420
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cagcagatca cgcggtgtg cgacgagctc cacatctact gctcgcgctg cacggccgac      540
cagctggaga tcctcaaagt catgggcatc ctgcccttct cggcgccctc gtgcgggctc      600
atcaccaaga cggacgccga gcgcctgtgc aacgcgctgc tctacggcgg cgcctacccg      660
ccgccctgca agaaggagct ggccgccagc ctggcgctgg gcctggagct cagcgagcgc      720
```

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gaggtttta ccgatttata gagcagtcaa atccgaagtg ctcgagtgct tagaaacccc    3360
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tctgccgtag gtagatccgt cagcgggcat tattaccgtg tcttgtaaag ggtcggtttt   4080
gttatgcaac acgcagaatg ctgttttag ccttgtttta ccagagttgt tttttttttc    4140
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agttatttct tcaagggaaa ctaaatgatt tagttggagc aaagctttaa gtgtgttggc    4200
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catacacgta atgtctgctt ttcgtacaga actagccaat gtaaaaacag ttcacctgta    4980
aatactttt ccttttcac cgttgtatta tacatgtata tgctgggtcc tttttccaga    5040
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aaa                                                                   5103
```

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cgcctccccc ccccccccag gagcggggg gaaggactaa caagacgagc gctctggatc      60
ttactaaagg aataagcgtg cggccgcagg gccatgctag ccttgcgcgt tgcgcggaca    120
tccgatgggg ggccctgctg tggcgccgta tgggctccgg gaacgcggcc gagtaagcga    180
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tggaggctgc gtccggccgc tcttggcttg cggctgcccg ggatcggcca gcggaaccac    300
tgttcgggcg cggggaaggc ggctccccgg gccagcggcc ggagcgggcg ccgctgccga    360
agccccgggc ggccagtggg gcccggcgag caccccagc ctgtatgaaa acccatggac    420
aatcccgaat atgttgtcaa tgacgagaat tggcttggcc ccagttctgg gctatttgat    480
tattgaagaa gattttaata ttgcactagg agtttttgct ttagctggac taacagattt    540
gttggatgga tttattgctc gaaactgggc caatcaaaga tcagctttgg gaagtgctct    600
tgatccactt gctgataaaa tacttatcag tatcttatat gttagcttga cctatgcaga    660
tcttattcca gttccactta cttacatgat catttcgaga gatgtaatgt tgattgctgc    720
tgtttttat gtcagatacc gaactcttcc aacaccacga acacttgcca agtatttcaa    780
tccttgctat gccactgcta ggttaaaacc aacattcatc agcaaggtga atacagcagt    840
ccagttaatc ttggtggcag cttctttggc agctccagtt ttcaactatg ctgacagcat    900
ttatcttcag atactatggt gttttacagc tttcaccaca gctgcatcag cttatagtta    960
ctatcattat ggccggaaga ctgttcaggt gataaaagac tgatgaaagt catccctcac   1020
tgttagtaag gaagcagtat acatcaatgg gaacagggcc catggaaatg tacaggagtt   1080
tccctatttt ggtgttcagc ttgaaaaagg acttgtcaga atcaactgtg tcatcaaaat   1140
ttaagtaatg tgcattgaaa ataaggttga tcatgggaat atgcagaatt tccaatgtat   1200
```

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ataagagatc aattattgtc agtctttttt gtatgttttt taaaaacata gtccagagca    1320
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atgtcatggg gttcaaatat atatcctaca caactgggca atacattttt gtttgatttt    1440
taggtctgtg tatacattaa cagttcatgt aattaatacc tgatcatttg ggataatgaa    1500
agtgaagtta gttgtagatg aagtaaagtt ataaaagaga ttaaaaatgc ggtaactttt    1560
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gtgcctaata atttatgttt gaggataaca ggtaacaaag atagtcgaga taggagaacg    1680
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caagctgtat attttttcaaa ggttttttaa actttggaga ctctttcttt tgttaagcag    1860
ttaaaggaat aaaagagctg gaaaaaaaat tgtaccttca actcaggttg ttccatataa    1920
catacgtatt ctctgctgtt acgtaagttt tccgattcac agagtccatt catgtacatc    1980
acttacactt aaattgtaaa aataattagt ctgaccatct gactttaaaa gactgttgct    2040
acacgtacat catgtttagg agaatgtggg atatggggaa ggggagaaga agacagtcca    2100
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cagcgtgtcc ctctgtggct tgctggtcct ggttgttctc agactggcag ctgagctgcg    2340
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ttcattgtta ggagtagtta ggctgaaagt ggacttccca ctgctgagcc acccaagagg    2520
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tgaagtagct atgcgaaaat ttagaacttt gcactttgtt aacgcttatt tatggtttag    2640
tgttgatgcc atttggagtg acctatgggt tggacccata tctttttatt attaaggtct    2700
caatctggct ctggttaata aacgtttccc gcttcatccc ttaggaaaat ggtccaagtc    2760
tcctcaggct tttggatact gaattgttat aaaacacatc aattctgcca gtttataaaa    2820
cactggaatt gtattagaca tgtctgagta tgtacttgtt tatagactca aaacatgatg    2880
aaaattca                                                              2888
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<210> 6576
<211> 2562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1899)...(794)
<223> similar to gi1518458 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6576
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gtagatatga tatctccttt cagggcccca gcttaagggc aaagtgagtt aatgtgtaga     120
caaaggcgag ggacaagaga gagttaacat ctagacagtg gaaaaagcca tggtgtgtgg     180
tttctgggaa ccaccaacac ttgcaggttt agcttttttcc cagggttgac tacaagaaag     240
aaaaccatgt ttttgcaaga ttaaaatgtg gttgagtgtg cctaaattaa ccatccccat     300
ttttatcata tttccaccat cacttcaggg ttttaagagt cagtgctcac ctgggcggag     360
ctggtagtac attttgcttc ttagaaagct aagtcctggg ttccgtctga ttttaggttc     420
caggaacttc ctgagaacac ccgatcgcag agggtaattt tctggagttt gttttgcagg     480
```

5227
```

```
gatagctgggg agtatggcca ccctgctcca cgatgcggta atgaatccag cagaagtggt      540
gaagcagcgc ttgcagatgt acaactcgca gcaccggtca gcaatcagct gcatccggac      600
ggtgtggagg accgaggggt tgggggcctt ctaccggagc tacaccacgc agctgaccat      660
gaacatcccc ttccagtcca tccacttcat cacctatgag ttcctgcagg agcaggtcaa      720
cccccaccgg acctacaacc cgcagtccca catcatctca ggcgggctgg ccggggccct      780
cgccgcggcc gccacgaccc ccctggacgt ctgtaagacc cttctgaaca ctcaggagaa      840
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gacggtgtac cagctcaacg gcctggccgg ctacttcaaa ggcatccagg cgcgtgtcat      960
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caccaagcgc cagctggaaa atcgagctcc atactaaagg aagggatcat agaatctttt     1080
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attacacagt acaaaataga tggataatgt ttatccttta tttttctatg tagaagtttt     1500
tgaatttgtg tgtgtgcttg tgcgtgtcta cacctagtat tacggctggg actctccagc     1560
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ggcaacaaag taataaatca gtgaatgtgg ccggcagctg tgtttagccc ctccagatgg     1680
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ttctttttaaa ttcaatcagc caccttcatg tgccttttttc ctttgtctttt ccccaaaatt     1860
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gccgactagc gcctccgtgt ccacccacat gacagcagga gcgatggccg ggatcctgga     1980
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gacctacaac ccgcagctga ccatgaacat ccccttccag tccatccact tcatcaccta     2460
tgagttcctg caggagcagg tcaacccccca ccggacctac aacccgcagt cccacatcat     2520
ctcaggcggg ctggccgggg ccctcgccgc ggccgctcta ga                       2562
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          <400> 6577
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```

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ccccaaactc aagctcccca aagaccggca gtacgtggtg cggctgatgg ccccccttcaa      180
catgaggtgt aagacgtgcg gagaatacat ctacaagggg aagaaattca atgctcggaa      240
ggagacggtg cagaacgagg tctacctggg cctgcccatc ttccgctttt acatcaagtg      300
cacgcgctgc ctggcagaga tcaccttcaa gacagaccct gaaaacacag actataccat      360
ggagcatgga gccacgcgga atttccaggc tgagaagctc ctggaggagg aggagaagag      420
ggtgcagaag gagcgggagg acgaggagct gaacaacccc atgaaggtgc tggagaaccg      480
gaccaaggac tccaagctgg agatggaggt gctggagaac ctccaggagc tgaaagacct      540
gaaccagcgg caggcgcacg tggacttcga ggctatgctg aggcagcacc gcctgtcgga      600
ggaggagcgg cggaggcagc agcaggagga ggacgagcag gagaccgcgg ccctgttgga      660
ggaagccaga aagcgaagac tgctggagga ctccgactca gaggatgagg ctgctccctc      720
gcccctgcag ccagcccttc ggcccaaccc caccgccatc ctggatgagg ccccaaagcc      780
caagaggaag gtggaggtct gggagcagag cgttggcagc ctgggcagcc ggcccccgct      840
gtcgaggctg gtcgtggtga agaaggcaaa ggccgacccg gactgcagca acgggcagcc      900
tcaggcggcc cccacccccag gagccccgca gaacaggaag gaggccaacc ctacacccct      960
gacgcctggc gcgtcctccc tgagccaact gggtgcatac ctggacagtg acgacagcaa     1020
cggcagcaac tgagccctcc caggaccccc tcacggggtc aaagtcacac gtccagcttc     1080
agccacattg aggccagcat tgctggtggt cagggcagga ggccttggcg tgactggagg     1140
ccggacagac aagcgccagc gtgctccaac acatagggcc accaggggcc tcagccccag     1200
gaggtccctt ctctgtgccc tcaccagcct ctcaacacct cggggacccc tgctgctcct     1260
gcccccacct gtcactgtgc ttagggctgc aacatccctg gagcagcttc caacactact     1320
tcagggtggc agtgtttggg gcactgggcg agcctgccgg cctctagatg gcctcatctc     1380
ttccttccac aaactgtcta gaaccaataa aaggaaacct gccaaaaaaa aaa           1433
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        <210> 6578
        <211> 2291
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1847)...(118)
        <223> similar to gi2950170 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters

        <400> 6578
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gtgaggacgc tgctaactga aggcagcagt tcagccagtt gctccaagat gcccaccgct      180
tggcacagcg ggttaccctg caggttgagg aggaccagcc tggggcagga ggcaagaggc      240
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gggtggaggg tcctcaaggc agcgcagggc agccagtgca ggtggcaggg ttcggaggcg      420
attgtgtgac aagtcaagat gggtgaccaa gagcagctgt ccagatggc agagcactgt      480
cagatccttg tgagccaggt gcagcacacg cacctcggca tactccatct tgagcacgct      540
attctccagc aagaacttgc tgcgcaggtc atcaagaata cgttgcccgc ttggggtccc      600
aggcctttga gggtctggaa gtactgcagg gtctccttct catacagcag ggggtccagt      660
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gtactataat gccaacaggg catttcagaa gatggacaca aagaagaagg aggaacagtt    540
gaagcttctc aagggagaaa tatggcatca acacagatcc accaaaataa atgttttcta    600
cattttcatt tggactaaat cccacgaatg acaactacca ccttttttttt ccttttttaat    660
taatactaaa tattgtgatt tcttatttga ggttcaaaat gacctggctg gaaactttga    720
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<210> 6580
<211> 2585
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (220)...(1654)
<223> similar to gi516381 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters


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cccccgcgcc ccgttcggca cccaccggtc gccgcgccgc ccgcgcgccg ctgtcccgct       180
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5231

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ttaatgttgt cttaaaattt cttgattgtg atactgtggt catatgcccg tgtttgtcac    2520
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gcagtagtct cctcgttctc cgccgccgct agcctagctg agtcgccggc ttctgcgcta     180
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<210> 6583
<211> 1919
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature

<222> (119)...(1034)
<223> similar to gi5059323 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

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gttcaagaca ttaaattgaa atagtgagta taagccaaca ctttgtgata ggtttgtact 1320
gtgcctaatt tactttgtaa accagaatga ttccgttttt gcctcaaaat ttggggaatc 1380
ttaacattta gtatttttgg tctgtttttc tccttgtata gttatggtct gtttttagaa 1440
ttaattttcc aaaccactat gcttaatgtt aacatgattc tgtttgttaa tattttgaca 1500
gattaaggtg ttgtataaat aatattcttt tggggggagg ggaactatat tgaattttat 1560
atttctgagc aaagcgttga caaatcagat gatcagcttt atccaagaaa gaagactagt 1620
aaattgtctg cctcctatag cagaaaggtg aatgtacaaa ctgttggtgg ccctgaatcc 1680
atctgaccag ctgctggtat ctgccaggac tggcagttct gatttagtta ggagagagcc 1740
gctgataggt taggtctcat ttggagtgtt ggtggaaagg aaactgaagg taattgaata 1800
gaatacgcct gcatttacca gccccagcaa cacaaagaat ttttaatcac acggatctca 1860
aattcacaaa tgttaacatg gataagtgat catggtgtgc gagtggtcaa ttgagtagt   1919

<210> 6584
<211> 2162
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (132)...(793)
<223> similar to gi5420389 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6584

```
ggccggagga aaccaaccga gtgaaagagc gccagccgat tctgtattag tatgccgaga        60
acaagaaaga agaagatgaa ttggatggga aaaggagaaa agaggggggtg aacctggtga       120
tcccatttgt tccttcggct gataactcca acctctctgc tgacggagat gactccttca       180
ttaacgcgga ctcagccatg ccaagccctt tcagtgagat ctccatcagc agtgagctgc       240
acactggctc cattcccctg gacgagagca gcagtgacat gctggtcatt gtggatgacc       300
cagcctcctc agcccctcag tctcgagcta ccaactctcc cgcatccata acaggctccg       360
tctcagatac cgtgaatgga atttccattc aggaaatgcc agctgcagga cgtggtcact       420
cagcccgaag ccgaggccgc cccaaaggtt caggaagcac agccaaagga gcagggaagg       480
gccggagccg aaagtccacg gcaggcagtg ctgctgcaat ggcaggagcc aaagccgggg       540
ctgcagcggc ctctgcagct gcctatgccg catacgggta caacgtgtct aaaggaatct       600
ccgccagcag tcctctgcag acatcccttg ttcggcctgc tggccttgct gactttggac       660
cttcaagcgc ctcttctcct ttgagttccc ctttgagcaa gggaaataat gttcctggga       720
atcccaagaa cctccacatg accagcagcc tagccccaga ctctctggtc cggaaacagg       780
gcaaaggcac caacccctct ggaggacggt aaccatctgg gccctccgac ttccttcaac       840
caaaccaggg ctagagtcct gacctgccag tggtctttgg atggcttgcc ccgtgcagca       900
tcttgcatcc tgagtcagaa gtggaaatgt ccagcagggg aaggacaggc aggtggatgg       960
tgtgagcact tttatcatct gtgtctcatc aggagcatct ggggtgcctg taggaggaag      1020
gccacagggc atggatcagc cccactgcat ctcaagtgaa ctgtatagcc aagtcttaaa      1080
cctctcacgg ggcaagcctg acacagaccc cctttagatg ctcaggcata ctgtttccat      1140
cccgattcca ctcttcggct ctgacacgtc ccttgcaaag tctccgcagg tgctgtgaag      1200
agccttccat ggtagagatt tctcttaaga gtgtgatttc tcataggget agtaagggag      1260
attgtatacc tgttgtccac agtcttcagg cagctcccca ggtctctgaa ccccagagtg      1320
tcatcattgg agagagcagt gactgcgaga gatggtggag gccgctaagc atggtagagg      1380
ctagaggaag tctatccaca ggcagttgtg ttcccagcaa ttcctcccat cctgcatggt      1440
tcacaccaag agaaccttca gatcctacca gcaaccgtag caccttccac ccagggggact     1500
cccagaagcc agtaaagaga ccaggagcca cctcaatcag caggacagcc tcactgcccc      1560
tcttgcagag tcccctttgc ccatcctgaa tgcacagtct ccctgctcat gcccttcagt      1620
cccctgcttg gctgtatgca ctgtctatat tgcactgaga gaggaaggga cagcaggagt      1680
gaggtgaaga gggcggagag aggggggcagg ctcggcaccg gccctcccag cccggccagc      1740
ctgagcttgc tgccctccag tagagacaga ggggcagtgt ttgcatggga ggtgtttctg      1800
cctgtccctg cctgatgtcc ctggtggagc aggtacctcc gggcgggcaa gcctctgatt      1860
tgcacacctg aaaatcgcgg aattgagttt cgatagattg attttttaaaa ctttttttgga    1920
gtaggggggta taggggaatc atttaattta aatcattaag attcccctgc tcaaacccag      1980
attcctgtgt acagatgcta tttagaggga atcagaaaaa tgccaagcct tttctctttg      2040
aatgtgctat ttttataact gaacttgtac atatgtataa agagagacac atcttccttt      2100
tactaactgg ataaaaaaat tttaaataaa atggagtgag ataattttag gtaaaaaaaa      2160
aa                                                                     2162
```

<210> 6585
<211> 2081
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1591)...(681)
<223> similar to gi5912261 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6585
```
tttttttttt ttggtgaaca agtacaaatt tagcaatttt aatcaatatt cttgcagaca    60
agtgtggata tgtatatgca tatatacata tatatatcaa aattgagaat ttacaaataa   120
gatttgatac atttattcta gcagtgggta agtccataga gtaaatttca agtaggatat   180
atttattttc tttggtggtg tttttaataa ttcctttcta ctgcatacaa agggacctga   240
agcttaaatt cagttagttt tggagaaatc caaaatgaga aaaacagaaa gcatgtagca   300
ttccatgaag caagaacagc gtgcatatgc tattcctgga aatactgaag tgtccgaatt   360
tcatgcctaa aaagtctgga aatcacactg aatcagttgc tggtttctga tgtctctggg   420
atgtgctatt acaaacaaac aaaaaaaagt agagaagcaa agttaacagc aaaactgaat   480
cctgttcatt gtccaggcca agaagtggga ctgagttcca gactgagatg accagaatgg   540
ccagtgtcca tctgtgacct tcctggcacc tagggcagcg gggctgagca cgctggctgt   600
ctttgctcac agcccctagt gcgacttagt tggtgggggct gggcagggca agcttgcagc   660
atgacggtcc tgtgattacc actttccagg gatggagacc ccacactcgt accagcccac   720
atagtagtag ggggttccga agccgatgtt cccaaacctg acaggctcct gacgatactg   780
gcgatagtag ccttgaatag tagggagggc ttctacatag gactgaggcc ctgttcttcc   840
atcaaggtgt gaatccacaa attggcaatg gtcttcacct cttccccagc tgtctccaat   900
gctgtagaat gtatctttca ggttgtcact gaggtagatt ttatacctca gtgaattaca   960
aagaacaact cccacgaact ttcgatacca cgtgcgcttc acatattgcc gtccatggca  1020
gtccgtgtag ctgggatcat gtttgaaagc gaatgggatc cagataggct caccgcctgg  1080
gggcctcaca acaagcagag gattatctga ttcggtgaca aatgagaccg aagggctgat  1140
aggtccgtag ccatgaggat tttgtgcttg cactttaaaa taatacctcg tgttgggctt  1200
taggttctca atgggcaagt gagttactga tgaagcctga gtggaccact tgttcctgat  1260
gaagtcttca taggatgcac tgtaaaccaa gtaacctgtg accacatctc ctggggtggc  1320
tttgtcccca atcccacaat gaacaaaatg aagtggcaaa ccttcccacg gccaacccac  1380
ggtgaatgtt gcggggagca tgctggggag gcagatcact cttcttcagg tcattgggga  1440
tgatttcatc caggctgtcc acttggaagt gatccagtgc atcagtcaga gagcacgggg  1500
ctgatgggtc tttatttagg tacgtcacgt aaggagcaac aaatcgtttc cttccagcca  1560
gatcaaattc ttcttcagga aaggaactga tggcgccttc ctctgggatc accctcggtg  1620
tggtagcagt ggtcgaaggc tcagtggtgg ttggtggcct tgacgtctca aattcataat  1680
cttcatcata tataacgtag gcctcttccg taggtactgc agtgtcagtc tccaagcctg  1740
agaactcatc ttcttcagcg tagcactctg ggatcccatt ggagctcatt atcaggttgc  1800
catcatcgtc gtgccgttcc aaggtcccag ggggacaggt ggggatggga gtggtgggtt  1860
tggggggtggt ggtggtggtt gtccgcgtag tggttcggac tgtggttgtt ggacgcctgg  1920
tggtcgtgcg gcgggtggtg gcagtggtgg gcctcggggt tgtagtggta ggcagggggcg  1980
tcgtagtagt ggtgggctgc atggtagtgg taggggggatg ggtggttttt ttgatgacct  2040
ccaagcccac cagcggcttt cctcgccatc ataaccgaaa a                      2081
```

<210> 6586
<211> 1722
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (81)...(1723)
<223> similar to gi5410336 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6586
```
ggtttttgtt ttttgagccg caccccgcgg aggcgaggaa gcagcagccg cagcacagca        60
gcagctccaa tggcgttaaa atggagaatg atgaatcagc aaaagaagag aaatctgact       120
taaaggaaaa atctacagga agtaagaagg ccaatagatt tcatccttat tcaaaagaca       180
agaattcggg cactggagaa aagaagggtc caaatcgtaa cagagttttc attagcaaca       240
tcccatatga catgaaatgg caagctatta aagatctaat gagagagaaa gttggtgagg       300
ttacatacgt ggagctcttt aaggatgcgg aaggaaaatc aagggggttgt ggtgtggttg       360
aattcaaaga tgaagaattt gtaaagaaag ccctagaaac tatgaacaaa tatgatctta       420
gtggaagacc ccttaatatt aaagaggatc ctgatggaga aaatgctcgt agggcattgc       480
agcgaacagg aggatcattt ccaggaggac acgtccctga tatgggatca gggttgatga       540
atttaccacc ttccatactc aataatccaa acattcctcc tgaagtcatc agtaatttgc       600
aggccggtag acttggttcc acaattttg ttgccaatct tgacttcaaa gttggttgga       660
agaagctaaa ggaagtgttc agcatagctg gaactgtgaa gcgggcagat attaaagaag       720
acaaagatgg caagagcaga ggaatgggca ctgtcacttt tgagcaagca attgaagcag       780
ttcaagcaat ttctatgttc aatgggcagt ttttatttga tagacctatg catgtgaaaa       840
tggatgacaa gtctgttcct catgaagagt accgttcacc tgatggtaaa acaccacaat       900
taccacgtgg tcttggaggc attgggatgg gacttggtcc gggtggacag cctattagtg       960
ccagccagtt gaacataggt ggagtaatgg gaaatttagg tccaggtggt atgggaatgg      1020
atggtccagg ttttggagga atgaatagaa ttggaggagg aatagggttt ggtggtctgg      1080
aagcaatgaa tagcatggga ggatttggag gagttggccg aatgggagag ctgtaccgtg      1140
gtgcgatgac tagtagcatg gagcgagatt ctggacatca gtgatattgg attaagtcga      1200
ggctttggcg attcctttgg tagacttggc agtgcaatga ttggagggat tacaggaaga      1260
ataggatctt ctaacatggg tccagtagga tctggaataa gtggtggaat gggtagcatg      1320
aacagtgtga ctggaggaat ggggatggga ctggaccgga tgagttccag ctttgataga      1380
atgggaccag gtataggagc tatactggaa aggagcatcg atatggatcg aggattttta      1440
tcgggtccaa tgggaagcgg aatgagagag agaataggct ccaaaggcaa ccagatattt      1500
gtcagaaatc tacctttttga cttgacttgg cagaaactaa aagagaaatt cagtcagtgt      1560
ggtcatgtaa tgtttgcaga aataaaaatg gagaatggaa agtcaaaagg ctgtggaaca      1620
gtcagatttg actccccaga atcagctgaa aaagcctgca gaataatgaa tggcataaaa      1680
atcagtggca gagaaattga tgttcgcttg gatcgtaatg ca                         1722
```

<210> 6587
<211> 3549
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3550)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (22)...(2312)
<223> similar to gi4691726 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6587
```
gcggccgcgt cgccgctgag gatgtcccga aaggggccgc gagcggaggt gtgtgcggac        60
tgcagcgccc cggaccctgg ctgggcatcc atcagcaggg gtgtgctggt gtgtgacgag       120
```

```
tgctgcagcg tgcaccggag cctgggacgc cacatctcca ttgtcaagca ccttcgccac   180
agcgcctggc ctcccacgct gctgcagatg gtgcacacgc ttgccagcaa cggggccaac   240
tccatctggg agcactccct gctggacccc gcacaagtgc agagcgggcc ggcgttaaag   300
caaaccccca aggacaaagt tccaccccat caagtcagag ttcatcaggg ccaagtacca   360
gatgctggca tttgtgcaca agcttccctg ccgggacgat gatggagtca ccgccaaaga   420
cctcagcaag caactacact cgagcgtgcg gacaggcaac ctggagacat gtctgcgcct   480
gctctccctg ggtgcccagg ccaacttctt ccacccagag aagggcacca cacctctgca   540
cgtggctgcc aaggcaggac agacactgca ggccgagctg cttgtagtgt atggggctga   600
ccctggctcc cctgatgtta atggccgcac acccattgac tatgccaggc aggcggggca   660
ccatgagctg gcggaaaggc tggttgagtg ccaatatgag ctcactgacc ggctggcctt   720
ctacctctgt ggacgcaagc cggatcacaa gaatgggcat tacatcatcc cacagatggc   780
tgacagcctt gacttatccg aattggccaa agctgctaag aagaagctgc aggcgctcag   840
caaccggctt tttgaggaac tcgccatgga cgtgtatgac gaggtggatc gaagagaaaa   900
tgatgcagtg tggctggcta cccaaaacca cagcactctg gtgacagagc gcagtgctgt   960
gcccttcctg cctgttaacc cggaatactc agccacgcgg aatcagggc gacaaaagct  1020
ggcccgcttt aatgcccgag agtttgccac cttgatcatc gacattctca gtgaggccaa  1080
gcggagacag cagggcaaga gcctgagcag ccccacagac aacctcgagc tgtctctgcg  1140
gagccagagt gacctcgacg accaacacga ctacgacagc gtggcctctg acgaggacac  1200
agaccaggag cccctgcgca gcaccggcgc cactcggagc aaccgggccc ggagcatgga  1260
ctcctcggac ttgtctgacg gggctgtgac gctgcaggag tacctggagc tgaagaaggc  1320
cctggctaca tcggaggcaa aggtgcagca gctcatgaag gtcaacagta gcctgagcga  1380
cgagctccgg aggctgcagc gagagatcca caagctgcag gcggagaacc tgcagctccg  1440
gcagcctcca gggccggtgc ccacacctcc actccccagt gaacgggcgg aacacacacc  1500
catggcgcca ggcgggagca cacaccgcag ggatcgccag gccttttcca tgtatgaacc  1560
tggctctgcc ctgaagccct ttggggggcc ccctggggac gagctcacta cgcggctgca  1620
gcctttccac agcactgagc tagaggacga cgccatctat tcagtgcacg tccctgctgg  1680
cctttaccgg atccggaaag gggtgtctgc ctcagctgtg cccttcactc cctcctcccc  1740
gctgctgtcc tgctcccagg agggaagccg ccacacgagc aagctttccc gccacggcag  1800
tggagccgac agtgactatg agaacacgca aagtggggac ccactgctgg ggctggaagg  1860
gaagaggttt ctagagctgg gcaaagagga agacttccac ccagagctgg aaagcctgga  1920
tggagaccta gatcctgggc ttcccagcac agaggatgtc atcttgaaga cagagcaggt  1980
caccaagaac attcaggaac tgttgcgggc agcccaggag ttcaagcatg acagcttcgt  2040
gccctgctca gagaagatcc atttggctgt gaccgagatg gcctccctct tcccaaagag  2100
gccagccctg gagccagtgc ggagctcact gcggctgctc aacgccagcg cctaccggct  2160
gcagagtgag tgccggaaga cagtgccccc agagcccggc gccccagtgg acttccagct  2220
gctgactcag caggtgatcc agtgcgccta tgacatcgcc aaggctgcca gcagctggt  2280
caccatcacc acccgagaga agaagcagtg acctctctcc ccacaccctc acctgcaccc  2340
taggacctca ctggccatag gagctgggcc actccagaca ttaatcccca ccccaacaga  2400
gccactggca caagtgccct tagtgctgcc acactccctg gcagccaggt gccctggtgc  2460
ccacccctgt cgagccccta aggatgggga ggtgggggg caggagcttc tgtcccccac  2520
attccatgca cctcccctct gtatatagca tctccccccct cctagtgagc aggggcctgc  2580
aaggcatcac tcccagcccc tcgccttcta gggcaccctc agcaaagggg caggtgggga   2640
cactccaagt ggggcagctc tccgtacatg cgccccaccc ccatgagcca gttcagccct  2700
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ctgtagccac cagcccttg ctgctctccc tttaatgcca tatggcccct gcctagggca  2820
caggccccaa cctgtgtgct ggggtcccca gcagcaaaca ctggaaagtc tgttttttt  2880
ttttctttct tcttccccac cccttaattt taactttgtg gtaactgagt gccccgcgt  2940
gcctgcgtgt tgagtgtgtg gggcggcagt gccgttccgg aggcctgggt ccatgtggga  3000
gttttgaggg gtgaggggac cagagcagtg ggaccagcat ggggatcagc ttcccttccc  3060
cacctggagc cagggactgt ccgggtagcc agttttggtc ctgccagctg cctccctgat  3120
ccctccccac tctcgcccct tctctatgaa cttaaatcaa aaaccacttc cctccatctc  3180
ctcctgctcc tgcgtggagg gggaatgtgt gctggctagg gtggaggact gagcacctga  3240
gcctggggct ggctccccgg ggtccccgac tcagctggtg gctgtggagc tgagtcccct  3300
ccccgtaacc tctgcaaggc cagcacccac catcactacc tgcacctgct gtggtcccac  3360
cctctggagg cctgggaacc tggctgcagc ctgggaaggc tggagaggca gacggtggga  3420
ncccaccagc tctctcccca tcccgcttct tccctggggg ccagggccct acctgtgtgg  3480
tggtgggtgg gctgtcaaga cgtgtcatgt acatttgtat caaaaataaa gaagtggcca  3540
```

5239

```
        <210> 6588
        <211> 2326
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (113)...(1329)
        <223> similar to gi3342218 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 6588
actaacctat gaggattttt taatttgaga gccctcaaat gggccagtgg tctagtcagc     60
attgggaaat gaagatgatg agatcctgta actcggaaaa gatatcagag gaatgttcgt    120
ggcatcagag agaaagatga gagctcacca ggtgctcacc ttcctcctgc tcttcgtgat    180
cacctcggtg gcctctgaaa acgccagcac atcccgaggc tgtgggcttg gacctcctcc    240
actcagtacg tgtccctgtg cgacctggga cgccatctgg ggcattgtgg tggaggcggt    300
ggccgggggcg ggcgccctga tcacactgct cctgatgctc atccatcact ggtgcggatt    360
gaccttaatc aaggagaagg agaagaagag ccctgtgggc ctccactttc tgttcctcct    420
ggggaccctg ggcctctttg ggctgacgtt tgccttcatc atccaggagg acgagaccat    480
ctgctctgtc cgccgcttcc tctggggcgc cctctttgcg ctctgcttct cctgcctgct    540
gagccaggca tggcgcgtgc ggaggctggt gcggcatggc acgggccccg cgggctggca    600
gctggtgggc ctggcgctgt gcctgatgct ggtgcaagtc atcatcgctg tggagtggct    660
ggtgctcacc gtgctgcgtg acacaaggcc agcctgcgcc tacgagccca tggactttgt    720
gatggccctc atctacgaca tggtactgct tgtggtcacc ctggggctgg ccctcttcac    780
tctgtgcggc aagttcaaga ggtggaagct gaacgggggcc ttcctcctca tcacagcctt    840
cctctctgtg ctcatctggg tggcctggat gaccatgtac ctcttcggca atgtcaagct    900
gcagcagggg gatgcctgga acgaccccac cttggccatc acgctggcgg ccagcggctg    960
ggtcttcgtc atcttccacg ccatccctga gatccactgc acccttctgc cagccctgca   1020
ggagaacacg cccaactact tcgacacgtc gcagcccagg atgcgggaga cggccttcga   1080
ggaggacgtg cagctgccgc gggcctatat ggagaacaag gccttctcca tggatgaaca   1140
caatgcagct ctccgaacag caggatttcc caacggcagc ttgggaaaaa gacccagtgg   1200
cagcttgggg aaaagaccca gcgctccgtt tagaagcaac gtgtatcagc caactgagat   1260
ggccgtcgtg ctcaacggtg ggaccatccc aactgctccg ccaagtcaca caggaagaca   1320
cctttggtga aagactttaa gttccagaga atcagaattt ctcttaccga tttgcctccc   1380
tggctgtgtc tttcttgagg gagaaatcgg taacagttgc cgaaccaggc cgcctcacag   1440
ccaggaaatt tggaaatcct agccaagggg atttcgtgta aatgtgaaca ctgacgaact   1500
gaaaagctaa caccgactgc ccgcccctcc cctgccacac acacagacac gtaataccag   1560
accaacctca atccccgcaa actaaagcaa agctaattgc aaatagtatt aggctcactg   1620
gaaaatgtgg ctgggaagac tgtttcatcc tctgggggta aacagaacc aaattcacag    1680
ctggtgggcc agactggtgt tggttggagg tgggggggctc ccacttctta tcacctctcc   1740
ccagcaagtg ctggaacccc aggtagcctc ttggagatga ccgttgcgtt gaggacaaat   1800
ggggactttg ccaccggctt gcctggtggt ttgcacattt caggggggtc aggagagtta   1860
aggaggttgt gggtgggatt ccaaggtgag gcccaactga atcgtggggt gagctttata   1920
gccagtagag gtggagggac cctggcatgt gccaaagaag aggccctctg ggtgatgaag   1980
tgaccatcac atttggaaag tgatcaacca ctgttccttc tatgggctc ttgctctagt    2040
gtctatggtg agaacacagg ccccgcccct tcccttgtag agccatagaa atattctggc   2100
ttggggcagc agtcccttct tcccttgatc atctcgccct gttcctacac ttacgggtgt   2160
```

```
atctccaaat cctcttccca aatttaattc ccttattcat tttcaaaagc tccaatgggg   2220
gtctcaagct tgaaaagccc cctccgggaa gggcagggtt gggaaggcag gcaccacggg   2280
caaggttttt cccgcgatga tgtcacctag cagggcttca ggggtt              2326
```

```
        <400> 6589
cctctcaagc gttttcagggc ttttgtggat cgacccagca cccctgccct gcactcctag     60
gaaacacacg aagagcacac acaacggtat tctcgtcgtg tatttgtgat ctcctctagg    120
caggcttgac agccccaccc actccccaat gtcactgcta ccatccacca cggacatttg    180
agtcctgaac ttgtcatgct cagggaagtc ctgtgatgtg ccttgtcctt ctcccaggtg    240
ctcaccccct aacacaggtg cagatgttca caaacagcca cattctgccg tagctgtctc    300
caatctgatg tcacccctgc cttggcctga agccctccag ctactagtgc tgcccaaaga    360
cccctcaagg ggtagtttgt tctcgcattc cgccccatct cgctttccag cacacagtag    420
atgttcaata aactgttgat cagattctga ggtctgtttg tgtttaatca gacaatatgc    480
aaagtattta caaccaattc tggatacccc cccacccccc gcaagtctgg gccttggaat    540
ttcggagccc caggcccggc ccagagccag gggtccccca ggcctctgca tagtcatctg    600
aaatctacaa aacactgtta aaaaaaaaa                               629
```

```
        <400> 6590
aagaacacct ttagatgacc acgccagctt ggcacgaggg gccccggctc tggcgtccct     60
ggctgccaag cctgaggccc gcagtcctac tcccgccgag acccgccgct ccggtcctgc    120
cccgaactgc ccacggccgg cagcgcttcc aggccctgaa aaaaactctc ttcctgtgtc    180
```

```
tggccagagg tatagagaga gacaggttca actctaaggc ctgaaaagga acaaggccca    240
ccggaagcaa tggccactgt ccctggcctc cagcccctgc caaccttgga gcaggacctg    300
gaacaggaag agatcctgat tgtgaaggtg gaggaggact tctgcttgga agaggagccc    360
tccgtggaga cggaggaccc cagccctgag actttccgcc agctcttccg gctcttctgc    420
taccaggagg tggctgggcc ccgggaggcc ctgagccgcc tctgggagct gtgctgccgc    480
tggctgcggc cggagctgcg caccaaggag cagatcctgg agctgctggt gctggagcag    540
ttcctgactg tgctgccggg ggagatccag gctcgggtac gcgagcagca gccggagagc    600
ggtgaggagg ccgtggtcct cgtggaaggg ctgcagcgga gcccaggaa acacaggcag    660
cggggctcag agctgctttc tgatgacgag gtgcccctcg ggataggggg acagttctta    720
aaacaccagg cagaggctca gccagaggat ctgtccctgg aggaagaggc tcgattctcc    780
agccagcagc ccccagccca gctgagccac aggccacaga ggggcccgct gttgtggcca    840
gagagaggcc ctccagctcc ccggcatcag gagatggcgt cagcctcgcc cttcctttcg    900
gcctggtccc aggtgcccgt gaacttggag gacgtggctg tatacctttc tggggaggag    960
ccaagatgca tggacccagc tcagcgggac gcgccgctgg agaatgaagg acctgggat   1020
ccagttggag gacggcggtt gattggcagg gaggatgccc cgttgagaat ggagtggtac   1080
cgagtgctct cggcacgatg ccaggggcct ggccacccgc tcccaggtca gaggccagcc   1140
ccagtcaggg gcttggtcag gcctgatcag ccaagaggcg gccccccacc aggaagacgg   1200
gcttcccatg gggctgacaa gccgtacacc tgccccgaat gtggcaaagg cttcagcaag   1260
acgtcccact tgaccaagca ccagcgcaca cacacgggcg agcggcctta caagtgccta   1320
gtctgtggga agggctttag cgaccgctcc aacttcagca cgcaccagag ggtgcacaca   1380
ggcgagaagc cctacccgtg ccccgagtgt gggaagcgct tcagccagag ctccagcctg   1440
gtcatccacc gcaggacaca cagcggggag cggccctatg cctgcaccca gtgcgggaag   1500
cgcttcaaca acagctcgca cttcagcgcc caccgccgga cgcacacagg tgagaagccc   1560
tacacctgcc cggcctgtgg ccggggcttc cgccggggca ccgacctgca caagcaccag   1620
cggacccaca tggggggcagg ctccttgccg acgctccagc cggtggctcc tggaggcccc   1680
ggtgcaaaag cctgatcacc aggcctgaaa ctccctttcc aggactctca tccctgggca   1740
cagaattcag gaaactgcta gacagcctgg tccgaaagca ttgccagctg cccgtttcct   1800
cccatggccc agtatgaggc cagcagggga catttgggat gcccaggccg cagaggaagc   1860
tgggcactgg gtgcagaaca agggcaagga caggctctga gtgtccagtg gcagccagaa   1920
caggtgacac agagcagggg cttcagccac agagacacac tcaggaggcc agaagccgac   1980
actcaaggtg ttcgtggggc tggctcctga agggcctggg agggtccatc agctgcctcc   2040
agcatccagt ggctgctggc atacagcctc atccccacgt cccaaccccT ctcctgtgtg   2100
tctgtgaccc tgtgcgctgt ctctgtgtgt accccccacc tgctcccccc cccttttttt   2160
tttgagacgg ggccttgctg tgtcccccag gcgggaatac agggccatga tcatagctca   2220
ctgcagcctt gaatccctgg gctcaagggt tcctcctgcc tcatcctcct gagtagctgg   2280
ggttacaggt gtgtgccgcc atgcccagtc tctttttttgg tagggccacc actcactggg   2340
tttagggttc cccaatacac tgtgacctca tcttaactaa ttatatcatc aaaacccgtg   2400
tttccaaata aggtcacatt ctgaggtctg ggtgcacatg aatttgaggg accctcgtc   2460
tgctgcaggg agccctgctg taccccagcc ttcccaggac gtggtctcca gcttcttcat   2520
cctgccagag tttccaaatg gagcccgggg ctctgcagca ttccagtccc ctttgcagat   2580
ccatagctgc tctgcagggc ggaagacacc tggggcggga aagcacccct gagttccatc   2640
ttcctgacat gtcgcctggg atgtgacggg cctgacatct ccccagggcc ggggcccagg   2700
gctgtctttg ctcctgggcc ccttagtgtc tggaatgtgg gcctttccac ggttgcccca   2760
ctttgtcttt ctaaggtaag aagccttcac cttccagctt ttgtctggcc tgtgctgcgt   2820
gggagccact ggtctgtgca catccacggt gggtgagtgg ccaagacaag cagtgtgata   2880
gagtccttgg tgggtttagt catctcggaa gtcgtagggc agctatggaa accactgggt   2940
tctggaacgt tccagccagg cagtggttgt tcctcatagg taggtggcct tggccttcat   3000
cccagcctgg gatgctccat tgcatttgtc acctagtcac tgtatatacg tgcacatttg   3060
accttttggc acagcccagg ttccaggtgc gtgacctgcc ctttttctca ttcccttaac   3120
tgacattatt tagtgtcaga ggccgagcac agtggctccc acctataatc ctagcacttt   3180
gggaggccaa cgcgggtgga ttgcttgagc ccaggagttc aagagcagcc tgggcaatat   3240
agaaagacat cttccctacc aaaaaaaaaa                                      3270
```

5242

<210> 6591
<211> 4454
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (4270)...(2550)
<223> similar to gi3882255 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6591
```
tttttttttt ttagcacaaa gcattttagg tttatttaaa taaaaattat aatttataca     60
atacttttc  tttaaacaaa caaagttttc ttaaaaaaat gttacaggag aattttttc     120
atcggttctt aatacagtac aatccttttg ttgaacaaaa gtcacactgg caatgattat    180
ttacagatcc aaaatagact caggcttcag acataaaaaa tttaacattc gtctagttca    240
gtgattagtc acagaaatta aacatctgcc cagatgtaca caatttggta aaaactacag    300
cttctctcca cggggagccc agagcccgtg ccgatccgcg ctccgctccc gaggacttcc    360
agggaggggc ctgtgctggc agcagagcca gtcggtggcc ctcccccgac ccccgctcc     420
ccgaatgtgg ccctccctgg gggcttcggc cacacctggc acgtggtcag ttttcatctc    480
cctttctcca caaaagggac tcgaactaaa ccacccgacg ctggtaaagc cccatctgcc    540
ccagggaccc ctcccgctgt gtttggggac tgaatcccag cacctaggaa gaggcgctca    600
ttggccccga ggccccggac ccatccttgg gcactgccgg gccctgggga gagaggtgtg    660
gccattgtct gcgggcactg cctctgcagc cgcccctggg ggtgggtcag tgcccaccct    720
gtgttgcctc aggcgccaag gtggggttca ctgggatatg tcccctccc ctggtgcacc     780
aagagagcca gtccctaca ggagccagac ccacggctca gagcgggttc tgtcccatt      840
cgggaaaggc cgccgtgtgg tcatcctgac gccaacgtcc gcgcagtcca gagccacggg    900
ggctccgctc caccgcctgg gataggacat gtgctgaatc tggtgatcgg cgcagctccc    960
cccaaagcac ccccggcacc agcgtgtgac tctgcggccc ctcgtgaagg gggtgaaacc   1020
agcccatgcc gccggatccc tcacccacac cagcaaatga ggatcggagc aaagataaaa   1080
attacatctg aaaaaggata caaaaataag aaaaccagct tgctcgctgt aaaaaatag    1140
atcttctgtt tcttcaaaaa acaacaatct caacgacacc caagggactc aggacaagct   1200
gagggagctg cgggatccgc cccagcagac acgcaggccc gcggggtggc cacctccttc   1260
caggaggccc aagccgcctt tccctccctt cagcccagcg caggcggccc cagcagacca   1320
ggcctgcggg cgctccctcc acaaatgcca ccttgttccc gggaagccca ggcttccctg   1380
gggcagggcg ggggctgggg gggtctgtgc ccggaccggc accggctagg cacgcggggg   1440
agggaacgct gtcgcatgtc ggctgcaggc agtgcaggcc caggcctctg ggctcggctc   1500
acggttgctc cctaaagcac aggggctgcc agagcctctc ggatggccca aaggcggctg   1560
cagcctgggc caccatggtc ccggaacact cctcccccact tcctccccca accaacccag   1620
gcaaccgcag cctgggggcc atgtgccaga catgccacag tgctcggagc acctccaaca   1680
gccttcgcgg atgttctcct gggccttcca aagagcaaag tgtgagaaag atgtgctttt   1740
acctgcacca tcctgtgccc ttactggtcc ccagctacag acctcctggc cggcgtgtca   1800
ggccgagagc agcaggcagg cccttacaga cacggtgctg agcgccctgg aggccagcaa   1860
ggaaggtgcc accaaagaca ctgagggcag gtgaggggtg ggcccttctc accctctctg   1920
ttcccgtgga gcgagtgtgg agcgcaggca gggtcactgc gcccggcccc agcccggcac   1980
caagggcaaa tgccacagga gggtctcatg taagaggaag gagggccgcc aggcccgttt   2040.
ctcggtggtt ggtgaaaggc ccccatgtcc ctccttgacg acatctttct gtccccagga   2100
ggaagggccc cgcactcttc agctatggct ttggtggtgg acgagcttct ggcctctgga   2160
gagcgggaca caaggttgcg agaacctctt ggggtggctg gagaggtttc tctgtccagg   2220
ctggaacgga gaagggcagg gccaggggtc ctgtgtgtct tctccacggg cccccgaggg   2280
cctctgcccc ctcccccagt ctgcgggtgg ccctcagagg cacctgacgt gccctgtggg   2340
agagggcac ccccgtccct gtgagccctg gccccttctt ggtcgataaa acgcagaggt     2400
caacacaata gaaccacagg tccaggagaa ttattgcaaa agctcatgag gatgtccaat   2460
tgtttccact accaaatcgt aaaaaaaaaa aagaaaaag aaaaagaaaa agaaaattcc    2520
```

5243

```
agcaacgtcc tgggcaagtc aatactagct gtccccgcca gacgctgccg ctgaggtgat  2580
cttgatgtac tggctgagaa tggtctcgaa ggcctcatcc ctgtgcacca tggcaccaaa  2640
cacgagcggt ttctgggtgg atggcgtcga cacggcaatc cccatgcctg agcctgggag  2700
gacagacagg accttgtact tctggatgtc cgtgatgtcc actagcttga tgactttgtt  2760
cctctttgag gacccagatt tggagctttc gaagcacaag taattctgcc gtgacgtaga  2820
gcaccccgtt cctgatgtag tccgtgggca tcttccggtc cctgttgatg aggcagcagc  2880
gccagccatt ctcgcacacc gccagcggac gctcgttttc tgtcagattg aagatctcgt  2940
ggaaattgcc cttcttggtg ctgtggaagc gaccggcgtc ctcctcttta cccaggccgg  3000
ccggtgcgct gggtacgtag ctccgtgacg aggtcgtctg cagcctgcgt gagactgcgg  3060
cgctggagcg ctccttgagc tgcgggtcgg tggggagact cctccagatg atataagggcg  3120
tgtcgtactt ggcgcgcagc ctcgggcagc gtttaaagat gaaatcaatg aggaagaact  3180
tgataccagc atagagtccc acggcaagcc ccaccaggcg gtaggggaag aagcaggag  3240
ccaggaaggc agcccagagc gccacataca gcttctgtgt gatctccggc tggacccaca  3300
tgaacaagtt cttgatcttc tccaggatgt cagccatctt cccgaaaagg ttctgggctt  3360
tctgggcgac gtccagcacc agctggaact tctcagacac agtcaggtct tcctttggag  3420
gttccacggg ctcagacact tcgggcacga tgctccactg tatccgccac cccctggcga  3480
tgaggtaatt gagggataac ctcagaattg ctagaaataa gaacaatggg atggcccagc  3540
catgccacac ggcattcatg tacacggtga aggcaatggc agacgtgtag acggagtacc  3600
agtcggataa ggcagagagg ttcttcacaa agttagtgac cggcttggca ccgcgcttga  3660
gccgtctcat attttcagtt aacctgcggg cgctcagggg ttcctctgtc tccacagtgt  3720
tctcctcggg ctggaaccgg aagtcctcca cgtactcccc gaaccgctcg tagaaccact  3780
tctgcaggcg cgaggacagc ccctggctcc ggcgctctgc tccattgctg gcctgggcct  3840
gcccttttgg gggctgctga gccatctgct cctcggttct ggccttcagc acctcctgca  3900
ccttctgctc cagctccatc cgccgctgcc gctcgcggtc cagctcctgc cgcagcatct  3960
ccgcgttggt ttcttctcgc agcttccgga gctcctcctg taagaaatgt ttttccaata  4020
aggcaatttc caggtgacct ttgatctcat tcagtcgatc aaactctgtc cggttaaagt  4080
cctggactcc tgtggccatg atgagggtcc ctggaccagc agggtccctc agctcctcgc  4140
tgtcccgggg cgaggtccgc ggtaccttca gggggatttc gtcgctgcat cggtgtccg  4200
aggcatttgg agactccgct agatcgagga agtcatctct cttgtgacct ctgaacctga  4260
ttttgtccaa cctccttagc atgttcagca ctgaggtcct ctgcttcacc ctaacatgac  4320
gctcgggttc cctccgtctg tctcagatac atccagaaac actctttcac tgtggctcct  4380
tcaggtcctg gcccagaacc agaatgtgct tcgaggaccc accaaccata gcctccaagc  4440
caccccacac cagc                                                    4454
```

<210> 6592
<211> 1839
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (429)...(1840)
<223> similar to gi3882311 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6592
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tttcgtcgcg ctccgagcgg ctgtcggcgt gcgctatcgc cccgccctgg ttagtgtcta   60
gccggccggc gaggcctgcg cagttgcagc ggccggggaa gatggtggag acggcgcgg   120
aggagctgga ggatctggtg cacttctccg tgtctgagtt gcctagtcgc ggctacggcg   180
tcatggagga gatccggcgg cagggcaagc tgtgcgacgt gaccctcaag attggggacc    240
```

5244

```
acaaattcag tgcccaccgg attgtcttag cagcctcgat cccgtatttc catgctatgt      300
ttacaaatga catgatggag tgcaagcagg atgagattgt aatgcaagga atggacccaa      360
gtgccctgga ggctctgatc aactttgcct acaacggcaa ccttgccatt gaccagcaaa      420
atgtccagtc attgctgatg ggggcgagct tcctgcagct gcagagcatc aaagacgcct      480
gctgcacatt ccttcgagaa cggcttcacc caaaaaactg cctgggtgtg cgccagtttg      540
ctgagacaat gatgtgtgct gtgctgtacg acgctgccaa cagcttcatc caccagcact      600
ttgtggaggt gtccatgtca gaagagttcc tggccctgcc cttggaagac gtgcttgagc      660
tggtgtctcg ggatgagctg aatgtcaaat ctgaggagca ggtctttgaa gctgcattgg      720
cctgggtcag atacgaccgg gagcaaaggg gtacattcct gctgtaacct ccagtccaat      780
atccgcctgc tcttctgtcg gccccagttc ctttcagaca gagtacagca ggatgacctg      840
gtgcgttgct gccacaaatg cagggacctg gtagacgaag caaaggacta cctcctcatg      900
ccagagcgcc ggccccacct gccagctttc agaacccggc cacgctgctg cacatccatc      960
gctggactta tctacgctgt aggggggcctc aactcagcag gtgattccct gaatgtggtg     1020
gaagtgttcg accccattgc caattgctgg gagagatgcc gtcccatgac aacagcccgc     1080
agccgcgttg gcgtggctgt ggtgaacggg cttctctatg ccatcggagg atatgacggc     1140
cagctacggc tgagcactgt gcaggcctac aacacggaga cagacacatg gaccagagtg     1200
gggagcatga atagcaagag aagtgccatg gggacagtcg tgctggatgg gcagatctac     1260
gtctgtgggg gctacgatgg caactcttcc ctcagctccg tggagaccta ctcacctgag     1320
acggacaaat ggacagtggt gacctcgatg agctcgaatc gcagtgctgc tcggggttac     1380
agtctttgag ggcaggatat atgtgtcagg cggccatgat ggtttgcaga tcttcagcag     1440
tgtggaacac tacaaccacc acacagccac ctggcaccct gcagctggca tgctcaacaa     1500
gcgctgccgg cacggagccg cctccctggg gagcaagatg tttgtctgcg ggggctacga     1560
tggctctggc ttcctcagca ttgccgagat gtacagctct gtgggcagac cagtggtgcc     1620
tgattgtccc catggcacac gcgcagggag ccgggtctcc ctgggtgggc cagctgtggg     1680
gcgcctctac gctgtttggg gggttacgac gggacagtca aacctaaagc tcagtgggag     1740
atgtattgac cccagagaca gactgctgga cattcatggg cccccatggc gtgccatgag     1800
ggaggggtcg gtgtgggctg catccctctc ctcaccatc                           1839
```


<210> 6593
<211> 2542
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (52)...(1600)
<223> similar to gi3806094 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6593
```
acgcggggcc gggcggctga gcgttcgcgg ggccgaggcc atggctttct gggcggggg       60
ttcgcccagc gtcgtggact atttccctag cgaggacttc taccgctgcg gctactgcaa      120
gaacgagtcg ggcagccgct ccaatggcat gtgggcacat tccatgacag tacaggatta      180
tcaggatctc atagaccgag gatggcgaag aagtggaaaa tatgtgtaca aacctgtcat      240
gaatcaaaca tgttgtcctc agtacacaat aaggtgccga cctttacaat ttcagccttc      300
aaaatctcac aagaaggttt tgaaaaaaat gttgaaattt ctggctaaag gggaggttcc      360
caaaggaagt tgtgaaggat gagcccatgg attccacaat ggatgatgct gttgcgggtg      420
actttgcatt gataaataaa ctggatatac agtgtgatct taaaacactc agtgatgaca      480
tcaaagagag tttagagagt gaaggaaaaa attcaaagaa agaagaacct caggaattac      540
ttcagtcaca agatttcgta ggagagaagt tgggctctgg tgaaccgtca cattcagtta     600
```
```
                                  5245
```

```
aagttcacac agttcctaag ccaggcaaag gggctgattt gagtaagcct ccatgtcgaa       660
aagcaaagga aatccggaaa gaaaggaaaa ggttaaaact aatgcagcag aacccagctg       720
gagaacttga gggtttccag gctcaaggtc acccaccatc tttgtttcca ccaaaggcta       780
aatccaacca gccaaaatca ctcgaagatt taatttttga gtctttacca gagaatgcat       840
cacacaagtt agaggtgagg gtggtgagat catctccacc aagttcgcag ttcaaagcca       900
cacttctgga gtcttaccag gtctataaac gttaccagat ggttattcac aagaacccac       960
ctgatacgcc aaccgaaagc cagttcacaa gattcctttg cagttcaccc ttggaggcag      1020
agactccccc taatgggcca gattgtggct atggctcctt tcaccagcag tactggcttg      1080
acggaaagat cattgctgtg ggggtgattg acatcctccc aaactgtgta tcatctgtgt      1140
atttgtacta cgatcctgat tattcgtttt tgtctttggg cgtctactct gcactacgag      1200
aaattgcttt tactaggcag cttcatgaga aaacttctca actcagctat tattatatgg      1260
gtttctacat tcattcatgt cccaagatga aatataaggg tcagtataga ccttctgatt      1320
tgctgtgccc tgagacatat gtttgggtac ccattgagca atgcctgcct tcacttgaaa      1380
actccaagta ctgccgtttc aaccaggacc ccgaagcagt ggatgaggat cgcagtacgg      1440
aacctgaccg attgcaggtg tttcacaaga gagccatcat gccttacggt gtttataaga      1500
aacagcagaa agacccaagt gaggaggctg ctgttctgca gtacgccagc ctggtggggc      1560
agaagtgctc cgagcggatg ctgctgttca gaaactgacc tgttcgcctc tgccgggaag      1620
ttcctgtgtt gtgctgatga tttgtgccag gatacatatt cagtacctgt ggggaaataa      1680
ctgtcaccac ccacaaatta gacattttta ttttgactat ctatggcttt taaaaaatat      1740
tttgtggcaa tgtatctgtg agaatctcat agttaatata aagattttaa aactgcatta      1800
tgacctagcc cccataattg ggatttatca ttttggagga ttctttctag agcaagatat      1860
gctcaaattc tcctgtttgt attttgtaaa atgaagaagt gaatctaagt aacttaatca      1920
cagttgtgca tttttttttgg ttctgttaga gaaattaaaa cagactgttt cctcaggccc      1980
attttaaact gaacttatgc taggaaacct taagtatggg gaaggtagaa agttcatttc      2040
atcacttaga aaatatgtct tctcaagaac aaaactgtgc tgttacaact cagtgttcaa      2100
tgtgaaattg ctgccaaatg ttatgtagtt aatagagaa cttgaaaaaa taaaacatta      2160
aaatggagct tgtgttagca tcaggtatcc atttgttcag gacagtcctg ttcatgtctg      2220
ttgtcttggc ataattttttt cccctagaat atagtactcc cttttactct aaaaaaatatc      2280
ccagtttgga caataaaata cataattact ctagttatat tatttgcttt acttctaaaa      2340
atgtaagaaa ttgaattttt ttaaagaaaa atgttggttc ctgccttgat ctaagtctca      2400
tccaaaggaa ataaatagtc actagttttt tatcttacaa ctcaggacat ttgtctttgg      2460
ttattaatgg aaattaatat gtgattactt tcatagttat gccacaaatc acattgaaga      2520
aggaatcatt ccgacctctg tt                                                2542
```

```
      <400> 6594
tttttttttt ttgccacaca cagcactggg tggactttta ttttaaagtc aaaggcacag        60
cctggctggg ctgaggcagt gaccatggat gcccagccca gacccccaag gccccacccc       120
cagccaggag tagctgtgcc aaagaggaag gggtgggtga gaagatggcc tcctcttttta       180
ggagccacct atctccttcc ttagccccaa caggggagaa gcagatgaca taaagtgagg       240
```

```
cagaaatgct  tcagagggtc  ccccagggcc  tctccttcag  tacccccaac  acgggtcttt    300
ggtggacgta  attgcacaga  cagtccataa  agtgacagtt  gagggttgcc  cctcccagga    360
acggggcctc  aggggagaac  agggtagggg  gtcccagttt  aggagttagc  actcctaact    420
cagtgcttag  aagtggggga  ggggctcttt  cctgttggag  cagtcccct   ggaggggcct    480
tctgcccaga  agaggcagtg  tcctgggaga  gggcccccca  aaccccactc  cccagcaggc    540
ccccccttcc  ctgcaactct  atctggtaag  acataaaaaa  ttctctgctt  ataaaaatac    600
ttctgctctg  tctgggagtg  gggtggggta  ggagaggaaa  ggacagtccc  ttggggattc    660
tggtcagccg  caggcagagg  cctccgggag  tgagccgggc  tcccaggtca  cagcccctat    720
gagggaaggg  ggtcacagtg  gtggggatta  ggaggggggc  aggggccgt   tggctcggcg    780
gggggcccct  ttggaggcga  cgggggctcg  gcccgggttg  gctggtgcag  gggagccccg    840
gcgggaggcg  gtggcgctcc  gcagcttctg  cttccgccgc  ttggccaggg  gtgcattctc    900
cacgctcttc  aggaagaagc  cctcccgctt  gccccggttg  aatgccatga  aggtggcgtt    960
gagacccgag  cgcactgcgg  gcccagagga  ctcgagcacg  tcgggcgtcc  ggagcggggg.  1020
cgaggagcgc  gcgctgccgt  cctgcagcca  cgagctgccc  cgcagtccct  cgagtttcag   1080
ccgcttggcg  gggtccacgg  tcaggagccc  tcggaccagc  tccttggctt  cctcggatac   1140
accctgccag  gcctccccgt  caagggagaa  gcgcccctcg  cggattttgc  acatgatctc   1200
ggccgcctgg  ctctgcccgc  cctggccaga  ggccccctgg  aagcggacct  gccccgacag   1260
catcatggta  cagaatgacg  cgcaggctcc  agaggtcgca  ggactcgtcg  tatcgctgct   1320
gcgccagcag  ctcgggggca  gcgtactgca  gcgtgaagca  gggcgtctgc  atgggcaccc   1380
cgggactctg  cggccggaac  cgcggcgaga  cccgaagtcg  atgattttca  ccggggcccc   1440
ggctgtgtcg  tcggcgtaca  cgatgttctc  cggcttgagg  tcgcggtgca  ccacgcccgc   1500
ctcctcgtgc  atgaagctca  cggccgacac  gaggctgcgc  aggatctggc  ttgcttccga   1560
ctcgctgaag  tgccgcttct  tggcgaatgt  gctccagcag  ctccccgccc  cgcagcagct   1620
ccaggaccag  gtacgtgtgc  agctggtcgt  gatgcacctc  gtgcagattc  accacgttgg   1680
ggtgtgactg  gcacaggcgc  agggcagcca  cttcgcgctg  cgtgttcgcc  tccagcctgc   1740
gactgaggat  cttgactgcg  aactcctggc  cgctctggcg  ctggcggcag  cggcgacaca   1800
cagaaaagct  gccctggccc  agcgcaggct  cccgcaggtc  cagctcgtac  tgctggaaga   1860
agggcgagtc  ctgcatcata  gcgctcctgg  ccaccgctgc  ccgacctggc  cggtctccag   1920
caccaggcgc  ttccagccca  tcggtcatca  ccgcgttgtt  gtggtcaaag  agaatggagg   1980
gtgccacaaa  ggagtatccc  tgaaagattc  gggggtcccc  aggtgggggt  ctgtccaggg   2040
ggtgagtaga  caggctccag  ccgagtgaat  tcctccgcaa  agtttgccca  catccagctc   2100
tgagcggatt  tggggccgga  atgggctgg   aatcttcctg  gcagccagag  ccacccaatc   2160
gaggccctgg  aagaagggat  ggttccggac  ttcttgtgcc  ccctggggcc  ccgcgcccaa   2220
tcgcttctta  ggatccttac  aaagcagccg  ctgcagcagg  tcctgcgcca  cgggcccgat   2280
ccgagggggg  aagggagggg  agcacttcag  gatccgtcga  gacacctcag  cctgcgtgtt   2340
cctctcgccc  tccagggtga  agggcgaggc  ccccgtcagc  agctcgaaga  gcaagatgcc   2400
caggctccac  cagtccacag  ccttgccatg  ccccgtcttg  ctacggatga  tttcggggggc   2460
catgtactcg  atggtgccac  agaaggagaa  ggtccgctct  ttctcctccg  tcaggaactc   2520
cttgctcagc  ccgaagtccg  tgaggacaat  gtggccctcg  gagtccagca  gcacattctc   2580
cagtttcagg  tctcggtaaa  tgatgccgag  cttgtgcagg  tgttccaggg  ccagcacgat   2640
ctctcctcca  tacacgcgcc  cctcagcctc  cttgaagtac  tggcgctggt. agaggtggcc   2700
caccatctcc  ccgccgctca  catagtccag  gatgaggtgc  agcttggcat  ccgtctggaa   2760
agcgtagtgc  agcgtgacca  ggaagggcgc  ctggcgcacc  agctccagca  ccgagcgctc   2820
ggtgcgcgtg  tgctcctgcg  tcttggcgcg  ctgcaccagc  gccgccttgc  gcagcacctt   2880
catggcgtac  agcttccccg  cgtcgtgccc  gcccgccttc  cgcaccagga  acaccttgcc   2940
gtaggctccc  gtgcccagca  ccttgagcag  ctcgaagttc  tccacgctca  ccttctcctc   3000
gtgcccggtc  aggttggctt  ctgtgatccg  cagctccacg  cgcagctct   catcgtcgtc   3060
ctcgtcccccc  atggcgggcg  ggtcgctggg  gcccgcgcgg  ctcgggctcc  gggcggcgcc  3120
ggttacatgg  cggctcc                                                     3137
```

<210> 6595
<211> 2275
<212> DNA

5247

<213> Homo sapiens

<220>
<221> misc_feature
<222> (2221)...(614)
<223> similar to gi3378056 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6595
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tcctctaagg aagagcaggc agcttccccc cgaatctaca tgtgcgtgtg ctcggggaga   120
ggaaggctgg cggtcaggaa ggcccatctc ccagcctgat cccaggcagc agggctgcag   180
gagctgggca ggaaggctct gggccggcca tagccacctg ccagcaaggg caggcttctc   240
ttctcatggc tggggcagct cggcacagct gacctctgct ggccaagtga agcactgcat   300
gcagccacag agccaggcac agctgtcttc cgaagtttcc cgactcctga tgttttgggg   360
attcaaatag tccttttcat atgctggagg cacaaactgg ggcagctaaa atttttattc   ·420
tgttgtcaag gggcaagatg ccagcttgga agtgccaagg agctaaaggg cccagcactg   480
ccggccccag aactgtctgt tcaggctgtg cagtaagcac cagagcctcg cctgtccacg   540
aagggtgtaa gcctgtgctc cacaatgtgc tcagctccag agaggcccaa caacctcagg   600
agggcttggc tgtgggtctg aatttctttc ctttgtgctt gaagctgcgc agtgggttct   660
gggactttgc tctcttggcc ttcctacaag aggaagacag cttcttccgc ttcttgtgag   720
ggcgcaccag gccacggaga gcaggaggaa ccaggtagtc aggaacatgg cccaggtggg   780
gcttcaccac tgcggggtgc aaaggtaggt catgccgcag cagctggagg tcccctaggg   840
ttgtcttcaa agtatgtctt aagcttctca gaatgcagaa gctcttcctt gatctccttc   900
aatcttgcct cccgaatggc ctgcttagtc actgagcgca tggcatccct gcagcgatag   960
cggaagccct cgatctcctc catccggaac tggtagggga gcagaatggg gcccctgttc   1020
tctccactga gaagctcctc aatcttgcct aagtggaact gctccgtggg aagcacaaag   1080
gttaagacta tgcctgggtt gttagcgcgt gctgtcctgc cagctcgatg gatgtaggcc   1140
tcaggggttg ggggaagatc aaagttgagc acagcagaca catggtggaa gtctatgccc   1200
cgggccacac ctgcttccgg atcagaggcc ttgtcccctt tgggccctcg gccccgacgc   1260
ttgcccttga ctggggcccc caggacttca gcatcagttg ctatgacaca gtcgtagaag   1320
ccttggttga actgtgagat gatgtggcac ctggagcgca gtggaagctc tccattgagc   1380
acacaggtgg ggatgctgaa ctgttccaag aacaggcgta gccggtaact ccgttctaga   1440
gtgttgacaa agagcagaga cttgccccga atcaatgaca gcttgagcag ggcatacagc   1500
aggaggaatt tgtcttcctc agtctcacag accacctgaa actgctgtaa ctggtctggc   1560
ccaggcagct gggactcctg taacttaagg gtaaccgggt tatgtaatat cagctccttg   1620
agtgcttgta cgtcctcgtt aaaagtagct gacatgagaa aagcctggta aatccggggc   1680
aagtgacaga ggagactctt gagctcttct tcaaagccaa aggaaaaaag aaggtcagct   1740
tcgtccacca ccaaaagctc cagggagtca cgaagtttca ggctgtcttg ctgcaagtgg   1800
cttaatatgc gagatggggt ccctactacc acatctggct tctccatcag cacagctctc   1860
tgagagactg agtcttcagc agctgagaca ttggccactc ggacatcccg agcacagtag   1920
gtagccagct gctgaatcat ggactgtgct tgccgtgcca gctccttggt aggaacaaga   1980
acaaggcctc tcactgcctg ttctaccacc ggacctgtcg ccttcctatg gagcaacagc   2040
tgcagcatcg gaatagcata agcggccgtc ttcccggagc ccgtgcgggc ccgagccagg   2100
aggtccttcc cttctagggc cagtgggatg gccttctcct ggatcagcgt aggtcgcgac   2160
cagcccagat cggtgacagc ctgaaggagc cggggatcga ggcccatgtg ttcgaagccc   2220
agtgcttcag agtcctccat ggcgctgctc agtagcgcag cacgcacgcg ctgca   2275

<210> 6596
<211> 2726

5248

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (67)...(1468)
<223> similar to gi2121246 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6596
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tggccgggag acgcgaacct gccggaccac cgcgcgggga cgacggcggc catgagctcg   120
cggaagctga gcgggccgaa aggcaggagg ctcagcatac acgtcgtgac ttggaacgtg   180
gcttcggcag cgccccctct agatctcagt gacctgcttc agctgaacaa ccggaacctc   240
aatcttgaca tatatgttat tggtttgcag gaattgaact ctgggatcat aagcctcctt   300
tccgatgctg ccttttaatga ctcgtggagc agtttcctca tggatgtgct ttcccctctg   360
agcttcatca aggtctccca tgtccgtatg caggggatcc tcttactggt ctttgccaag   420
tatcagcatt tgccctatat ccagattctg tctactaaat ccacccccac tggcctgttt   480
gggtactggg ggaacaaagg tggagtcaac atctgcctga agctttatgg ctactatgtc   540
agcatcatca actgccacct gcctccccac atttccaaca attaccagcg gctggagcac   600
tttgaccgga tcctggagat gcagaattgt gaggggcgag acatcccaaa catcctggac   660
cacgagtgag cctggcctca ttatctggtt tggagacatg aactttcgga tcgaggactt   720
tgggttgcac tttgttcggg aatccattaa aaatcggtgc tacggtggcc tgtgggagaa   780
ggaccagctc agcattgcca agaaacatga cccgctgctc cgggagttcc aggagggccg   840
cctactcttc ccgcccacct acaagtttga taggaactcc aacgactatg acaccagtga.   900
gaaaaaacgc aagcctgcat ggaccgatcg catcctgtgg aggctgaagc ggcagccctg   960
tgctggcccc gacactccca taccgccggc gtcacacttc tccttgtctc tgaggggcta   1020
cagcagccac atgacgtacg.gcatcagcga ccacaagcct gtctccggca cgttcgactt   1080
ggagctgaag ccattggtgt ctgctccgct gatcgtcctg atgcccgagg acctgtggac   1140
cgtggaaaat gacatgatgg tcagctactc ttcaacctcg gacttcccca gcagcccgtg   1200
ggactggatt ggactgtaca aggtggggct gcgggacgtt aatgactacg tgtcctatgc   1260
ctgggtcggg gacagcaagg tctcctgcag cgacaacctg aaccaggttt acatcgacat   1320
cagcaatatc cctaccactg aagatgagtt tctcctctgt tactacagca acagtctgcg   1380
ttctgtggtg gggataagca gacccttcca gatcccgcct ggctccttga gggaggaccc   1440
actgggtgaa gcacagccac agatctgagc caggatggga gtgaatccca ggcggaggcc   1500
agagctggca gccagctctg cctttccact gccgggagtg ctgggggccc agcctggccc   1560
cctgaagaga cagccaagtg tcgtccacat actcctccca gagtgagctc taaccaggct   1620
catttgctct ctccactact catctctgga attagccgct taaatacagg tttttgttgc   1680
tgagatgtga gtgaaaccag ctagtgtgtc aacagtgaag acctggggac agttctgcgt   1740
ctcatttctg gattcctacc ccctcttcta gtcttgccca agtagtcctg ccaggcacat   1800
gccccatttg gcacaggcct gcattcttgt cgtgccgtcc tgggcctcag gctgtctggg   1860
aggggagatg ctcacatttg tacaggctac atagactggt gcaagcagtg ctggattcca   1920
ggagtcttgg catctcatag cttgtccccg tgaggagtga gcagagggtc tgggatttct   1980
gctttcagca aaagcagtct gactcagtgg gcagaatgga ggggcccctc tagccaggct   2040
cttacgccat ggttatgagc aggttgatga gggtccttcg gccagcacaa ccttcctccc   2100
tactcacggc atggagtctg actgcatgga agttccagat cctgacagag agaactggga   2160
aggatccagg ttcgcttccg ttggtagctt gagtcccatg cctccaccct gccatctgag   2220
gaaggggtga caagtggtca aggagctgtg gccacagact tttccagggt ggtccttggc   2280
aggtgaggtg cgtctgtgcc acccttgtca ggagccattg acgacgggcc cccctggac   2340
cccccgggac ctcaagagtg ggggcaggca gaagggagaa ccagctcaag acattttgga   2400
ggatctggcc ctggggttct tcaaagaaca ccctctaggg gctttgggga catggcctgt   2460
ccccacatcc agcacttgcc tccgccatgg tcactcggca gcccttttcc caggagaaga   2520
cacctctggg agcctgctca gtgcttgtcc tgccatcctg tgtcctggga ctgagggtta   2580
ctccagttgc tttgtgttgc atactctccc ccgcaagcct gtgtatgaag aattgtcccc   2640

```
tggcttccag caggccatgg ctggctgttt tgtgactgtt acattgtgca ggggtaatta    2700
ttagcgtggc ttttacaaaa aaaaaa                                         2726
```

<210> 6597
<211> 2642
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2643)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (917)...(2213)
<223> similar to gi1613848 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6597
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gattttcaca atgctttttcc atacaatgtc tggaatccat agataacata accggtttgg      60
tcaggggtcg atctttaacc aggcccaggg ttggcaccct ggctgtctgc ctgtggattt     120
catttctgcc ttttagtttt tacttgtttc tttggaggca gaaattgggc ataaaacaat     180
atgagaggtg gtctcctccc ttaacagcac aaacgcttaa ttaacatttc tttttctttt     240
gagacaggtt ctgtcgccca ggctggagtg cagtggtgca gtcatagctc agtgcagcct     300
ggaccacctg ggctcaagca gtcctgacac ctcagcctct caaaatttgg gattacaggc     360
gcgcgccacc gtgcgggtca ggaggcttcc ctgagggccc cggaggtgga gctgggcttt     420
tccttccgaa gcgcccctgg gaatctctct ctttacggcc ttggaacctg ggaaactaca     480
ttacccagaa agctttgcgt caaatgacag cacggcagag ccagtgagag ttcacattga     540
aggcgtttcc gtgtgcgcaa gtaaggtaga ggcgggactc ccggcgccct ttagtagcga     600
ccatttccat tggcgttagg gagtccttgg agcgctgtgt tgggaccgtg gtggtgactg     660
gatccaggag gtcgggagtc gttcttctct ttgcacagac gtgactctgc agctctttaa     720
cggcgcccgc tgctctcaac ccagcttacc ccacgtggtc ccatggcggc ggccgcgcta     780
aggttccccg ttcagggcac agtgactttt gaagacgtgg ctgtgaaatt tacccaggga     840
ggaatggaat ctccttagtt gaggctcaga gatgcctgtt accgtgatgt tgacgctggg     900
agaacctggg cactttatgt cctccctggg gttnttggtg tggagtggaa gatgaggcgg     960
caccttctaa gcagagtatt tatatacaaa gagagactca ggtcaggact cctatggcag    1020
gtgtgtctcc caagaaggcc caccccctgtg agatgtgtgg cccgatcttg ggagacattt    1080
tgcatgtggc agatcatcag ggaacacatc acaagcagaa actgcacagg tgtgaggcct    1140
gggggaataa attgtatgac agtggaaact ttcatcagca ccagaatgag cacattggag    1200
agaaaccccta cagagggagt gttgaggagg cgttgtttgt gaagaggtgt aagttgcatg    1260
tgtcagggag tcatctgtct tcagtgagag tggaaggact tttgcccagg tcaggattac    1320
tccagcagga ggccagtcac actggggaga agtcaaacag caaaactgag tgtgtgtctc    1380
cctttcagtg tggggggagct cactatagcc atggagattc catgaaacat tttagcacca    1440
aacatatact cagtcagcac cagagacttc tccctcgaga agaatgttat gtgtgctgtg    1500
aatgtgggaa atcctttagc aaatatgtta gcttcagtaa tcatcagaga gttcacagtg    1560
gaaaaagacc ttatgaatgt ggagaatgtg agaaatcttt tagtcaaaag agcagcctca    1620
ttcaacatca gcaatttcac actggaggaa aaccttatgg gtgtgaagaa tgtgggaaat    1680
attttagctt agaaggatat cttaggcgcc atcaaaaagt tcacgctgga aaagggcctt    1740
atgagtgtgg agaatgtggg aaatctttta gttcaaacgt gaaccttaag agtcatcagc    1800
```

5250

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gcattcacac tggagagaga ccttacaagt gtggagaatg tgagaaatct tttagtcgga    1860
agcccagcct tagttaccat cagcgcattc acactgaagt aagaccttac aagtgtggag    1920
aatgtgggaa atcttatatt tcaaaggggc accttaggat ccatcagcgc atgcacactg    1980
gagaaagacc ttacaagtgt ggagactgtg ggaaatcttt taatgaaaaa ggacacctta    2040
ggaatcatca gcgagttcac actacagaaa gaccttttaa gtgtgggga tgtgggaaat    2100
gttttagtca caagggtaac ctcattctac accagcatgg ccatactgga gaaagacctt    2160
atgtatgcag ggaatgtgga aaattattta agaagaagtc tcacctcctt gtacaccaga    2220
gaattcacaa tggagaaaag ccatatgctt gtgaagcttg tcagaaattt tttagaaaca    2280
agtaccaact cattgcacat cagagagttc acactggaga aaggccttat gaatgcaatg    2340
attgtggaaa atcatttacc cacagctcta cattctgtgt tcataagcga attcacactg    2400
gagaaaagcc ttatgagtgc agtgaatgtg gaaaatcttt cgctgaaagc tccagtttca    2460
caaaacacca gagagttcac actggagaaa ggccatatga atgcagtgat tgtgggaagt    2520
catttaccca cagctgtgca ttcattgttc ataagagagt tcacactggt cagaagcctt    2580
atgagtgcag tgaatgtggg aaatcttttg ctgcaagctc ctatctcact agtcacaggg    2640
tg                                                                   2642
```

<210> 6598
<211> 2306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (620)...(1196)
<223> similar to gi609017 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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<400> 6598
gaacttgcta atctcttttg tcacattcgg attgctcctg ctgccccaca cacactaacc     60
caaccatctt ggggtggact ccctgccagc ccaactgttg tattttcagt tcttccagtg    120
tgaatcagtt aatattctcg ggaacgaggg agaggttgat cctatgagga aatcaaccac    180
agtgaaaagg cttgggccgc ttttgttttc acctgctttt gttgaacaaa tttgatttcc    240
ggagtcagtc attttactgt caagacattt cttcggcatt ctgcaacagt ttccaacatg    300
gctagatcca tcagaaactg aagccgtgga gaacgctctc ggggcctttg ccacttcttg    360
gagtagaagc cgacagagag ctgtttggaa acttctcctt cacacaccag ttgaagacta    420
ggctttggag gttttcaaag cagacggtgc ttggatgggc agggagaagt aacattctgc    480
aaatcgccgt cagaggtcct gaggacacag acctacctgg cttgcattcc ccttgctgaa    540
tggcgtgtgc tgcagctgcc cactgagggc tctttttccct gggattctgg acttcagagt    600
aggacagcag gctgggaaga tgctgagttc catcaagtgc gtgttggtgg gcgactctgc    660
tgtggggaaa acctctctgt tgggtgcgct tcacctccga gaccttcccg gaggcctaca    720
agcccacagt gtacgagaac acaggggtgg acgtcttcat ggatggcatc cagatcagcc    780
tgggcctctg ggacacagcc ggcaatgacg ccttcagaag catccggccc ctgtcctacc    840
agcaggcaga cgtggtgctg atgtgctact ctgtggccaa ccataactca ttcctgaact    900
tgaagaacaa gtggattggt gaaattagga gcaacttgcc ctgtacccct gtgctggtgg    960
tggccaccca gactgaccag cgggagatgg ggccccacag ggcctcctgc gtcaatgcca   1020
tggaagggaa gaaactggcc caggatgtca gagccaaggg ctacctggag tgctcagccc   1080
ttagcaatcg gggagtacag caggtgtttg agtgcgccgt ccgaactgcc gtcaaccagg   1140
ccaggagacg aaacagaagg aggctcttct ccatcaatga gtgcaagatc ttctaaaccc   1200
caagagactt cacacaacac ttatgtatgc accccaaaga ctaatgggga gagggagggc   1260
cgggaagcca ggaaagcttg gtgttttctc tgggtacacc ccaagcagcg tctccttttg   1320
```

```
gatacagtta ttgatgaggc ttggccactg gatgttttca ctaactacac tctacaagtg    1380
aactccttgc ccaggccagt tagaaaatcc cttggggaac tgtgatgaat attccatctt    1440
tgattaaaaa agtgaaatag tctccataat tttggacgat gaagtgagtt tttcaaagaa    1500
ttccatattt aaagacacat tttatttaac taataacaaa atgtattgct tttgtatata    1560
tttagttttc acacttggaa aatcttttcc tacatcctcg aaaccataaa ctcctctgtg    1620
agtgaaatgc ttgtacgaag gctctgccat atgtttgtag tgttattatt ttcacctcaa    1680
gtagaaaggt ctgttgaaac cacttgggct gctggattta aatgggtaat caaatttaaa    1740
aatgaccata aatgaatctt tgcaatttgt tttctactta cctgttattc acagttggat    1800
ataaaataca gttccataag atatcctaat actgcctaat gattttaaag ttatcactat    1860
attttttctga aatgataaaa catcattcat ttatttacta tattgtcttt cactcaactc    1920
cagttatgca ctaaatattc tcctctcatt caccaagatt gattgaaaca ccatctttca    1980
ggtagagaat cagactgctc caagcaatgg caacagaact tggaacagaa gcgagagagt    2040
gtcactttca cttctggtag ggtggttccc aggcgactgc aggtcttgtg aaagacaggg    2100
gtctcaaagt tctgttaatt tcacaaattt gttataaatt tgtctaaact gagctgttgt    2160
ggcaacataa tttatgaatc gtaaggtcta gttaggctta ttggggggat atctacatat    2220
atatgtgtat gtaagggaaa aaaggtagaa tttacagcct tcaaaaaaga aaaatcaaat    2280
tccaagcaca ggaataagaa agctat                                       2306
```

<210> 6599
<211> 2327
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1662)...(474)
<223> similar to gi4887561 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6599

```
tttttttttt ttcaagtttc ttcagagttt ttaattatta ttattatttt aataacaact      60
ctgaatccca gaacttccag atactgtcca cactccctcc cctgggcaga ggagaggagg     120
cacctcaagg gaacaagatg ggggtggggg tgtcctgccg gggagcctcc gactcccca     180
agccgtctac tgctgggggg tcccagggag ggagggtggg ggttgtgttt cctccccaaa     240
gggtgctccc tgctgacgcc ccgtcctgaa gccctcccct cctccatcaa ggctggggat     300
gatgaggaga tggggcaggg gcccggggga ccaaggccca ttactgagcg cttgaactcc     360
caccccgggg aacacgggga caattaaagc tggcatagga agaggggggcc aggcggctga     420
cgcaaggccg ggcagcccca aaggcactat tgtaagggaa gggaggctca aaacgaaggg     480
cccattgggc gcagggggcc caagcccgtg ggaccccccg aggagggcca gctgagccca     540
gctgctccgg gctgggccag ggcgcgcagc agcccattct cctgctccag cgcagcgttc     600
cgctccgcca attcccggat ctgctccttc agcacctcca cctcctcccg gaccgcaaac     660
atgaggtggg acttcaccaa gtccatggct tgctcgattt tgttgtcaat gccaaccagg     720
cttccggagc cactatcatc gtcgctgtct aggtgaccac tgatggccaa catggagtgg     780
gccaggctga acttctgagc tgctactgct ccgaaggggt ctggagattt gtgaaccagg     840
ctggcatcgt gggtgaagta gagggctggg gagctgggggc gagagtcaag tgggggcacc     900
tgccccatct cttctggagc acccaactcc atccgcagcc gcatgtctac agctttcctc     960
cgggacagtg gaggggtcct ggcccctgag ccccagcct ccgcttccac cctcagagag    1020
ggcagggggcg tggcagcccg ggatgtgccc gcactctcac cggtctcagg ctctgggggg    1080
cgctgctggg gtgaggaggc cgacagtggg ggtttctctg ccttggcttt gctgggcacc    1140
accagctggc ccagtccccc agtgaaggag cgggcctgag gtccaggaga ggtgggggggt    1200
```

```
ggacggagcc aggaggtggg gccctgagac aggcctgacg gtggggtggg ggcgcccagg    1260
ccgaggctgg ccagctccaa cctggaatcc aaagatctgc ccccggcgcc ccctgaggcc    1320
cctcgaattc cctccaggag tccgccgaag ctgtggggct ccaggtctcg ctcataaaca    1380
tccacacacg tccagcgacc gcggcgataa ggctctccca ggccgtgggg cagcttcacc    1440
acccggaaac gggaggaagg ggccccaggt ggtggggagc cattccgggg ggtgcccttg    1500
ccccccggat cggggctggg ctccccattg ggcaggcggg gcggggggccc ggttggggggc    1560
tgtggggtag ggggatccga agcccctggg ctcccagggc cctcatagtc cgtggtgacg    1620
ctggtgattt ggaaactact cttcttcttg cccccgctca tggtccctgg ggctcagggc    1680
tgggccaagg ttggggggtgg gttagtgatc cttgaagggg ctcaggcacc cctggaacaa    1740
gggggccaca tggcggggac atccgagccc ctggggacgt ctgggtccga catggcagga    1800
gggcctggcg ggaaccgggg gtgcctgctg ggtgagggga gaagaggaga ggggaggtgg    1860
cgggaggggg gagcagggggc aggttttttcc tgctgctgtt gctgctgaac tccagagctg    1920
agtttgcaaa ctctggggcc tcggccactg atctgagcct gagggtcccg gcgcctaaga    1980
ggtcgggctg tccgttccct ggggcctcct ggccatgggc agtggcgggg cacgcaggcg    2040
gcgatcagag gctgtcccgt cctctccggg ggccgcggct catcctgcca ggcatctccg    2100
aggaaagttt gctctccgga aaagaaggaa cccgcgcctc ctccgaggag cctaggagcg    2160
gcctctgaag ccccaagggt ctggagactg atgtgggagg gggcggccga gcccccctct    2220
gctcccggtg gcagccagcg agtgggtgtc ccgagtctcc tcccgcgtga ccctgctggg    2280
tccgtgtctc cgctcctcgg ctcccctggg tctctgcctc tacgaaa             2327
```

```
        <400> 6600
attctttgga atactactgc tagaagtctg acttaagacc cagcttatgg gccacatggc      60
acccagctgc ttctgcagag aaggcaggcc actgatgggt acagcaaagt gtggtgctgc     120
tggccaagcc aaagacccgt gtaggatgac tgggcctctg ccccttgtgg gtgttgccac     180
tgtgcttgag tgcctggtga agaatgtgat gggatcacta gcatgtctgc ggagagcggc     240
cctgggacga gattgagaaa tctgccagta atgggggatg gactagaaac ttcccaaatg     300
tctacaacac aggcccaggc ccaaccccag ccagccaacg cagccagcac caacccccccg     360
cccccagaga cctccaaccc taacaagccc aagaggcaga ccaaccaact gcaatacctg     420
ctcagagtgg tgctcaagac actatggaaa caccagtttg catggccttt ccagcagcct     480
gtggatgccg tcaagctgaa cctccctgat tactataaga tcattaaaac gcctatggat     540
atgggaacaa taaagaagcg cttggaaaac aactattact ggaatgctca ggaatgtatc     600
caggacttca acactatgtt tacaaattgt tacatctaca acaagcctgg agatgacata     660
gtcttaatgg cagaagctct ggaaaagctc ttcttgcaaa aaataaatga gctacccaca     720
gaagaaaccg agatcatgat agtccaggca aaaggaagag gacgtgggag gaaagaaaca     780
gggacagcaa aacctggcgt ttccacggta ccaaacacaa ctcaagcatc gactcctccg     840
cagacccaga cccctcagcc gaatcctcct cctgtgcagg ccacgcctca cccttccct     900
gccgtcaccc cggacctcat cgtccagacc cctgtcatga cagtggtgcc tccccagcca     960
ctgcagacgc ccccgccagt gcccccccag ccacaacccc cacccgctcc agctccccag    1020
cccgtacaga gccacccacc catcatcgcg gccaccccac agcctgtgaa gacaaagaag    1080
```

5253

```
ggagtgaaga ggaaagcaga caccaccacc cccaccacca ttgaccccat tcacgagcca    1140
ccctcgctgc ccccggagcc caagaccacc aagctgggcc agcggcggga gagcagccgg    1200
cctgtgaaac ctccaaagaa ggacgtgccc gactctcagc agcacccagc accagagaag    1260
agcagcaagg tctcggagca gctcaagtgc tgcagcggca tcctcaagga gatgtttgcc    1320
aagaagcacg ccgcctacgc ctggcccttc tacaagcctg tggacgtgga ggcactgggc    1380
ctacacgact actgtgacat catcaagcac cccatggaca tgagcacaat caagtctaaa    1440
ctggaggccc gtgagtaccg tgatgctcag gagtttggtg ctgacgtccg attgatgttc    1500
tccaactgct ataagtacaa ccctcctgac catgaggtgg tggccatggc ccgcaagctc    1560
caggatgtgt tcgaaatgcg ctttgccaag atgccggacg agcctgagga gccagtggtg    1620
gccgtgtcct ccccggcagt gcccccctcc accaaggttg tggccccgcc ctcatccagc    1680
gacagcagca gcgatagctc ctcggacagt gacagttcga ctgatgactc tgaggaggag    1740
cgagcccagc ggctggctga gctccaggag cagctcaaag ccgtgcacga gcagcttgca    1800
gccctctctc agccccagca gaacaaacca agaaaaagg agaaagacaa gaaggaaaag    1860
aaaaagaaa agcacaaaag gaaagaggaa gtggaagaga ataaaaaaag caaagccaag    1920
gaacctcctc ctaaaaagac gaagaaaaat aatagcagca acagcaatgt gagcaagaag    1980
gagccagcgc ccatgaagag caagccccct cccacgtatg agtcggagga agaggacaag    2040
tgcaagccta tgtcctatga ggagaagcgg cagctcagct tggacatcaa caagctcccc    2100
ggcgagaagc tgggccgcgt ggtgcacatc atccagtcac gggagccctc cctgaagaat    2160
tccaaccccg acgagattga aatcgacttt gagaccctga gccgtccac actgcgtgag    2220
ctggagcgct atgtcacctc ctgtttgcgg aagaaaagga acctcaagg tctgagaaag    2280
ttgatgtgat tgccggctcc tccaagatga agggcttctc gtcctcagag tcggagagct    2340
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acacggactc ttaataaaac ggtcttcagt tccagattcc ttcccagcaa gctatagctt    2460
aagtccattt tcttccgtga aagggacagg actccatcaa gttatggaat tcctcagagc    2520
cctgggcctg tcccccgggg tggattagtc atgtccagca gcacacgcct agtcccgcct    2580
tcgggaaggc tgcctgcctg gccagccgcc caggtctctc tgtgtaaaga ctgcctgggc    2640
tgtcctgccc agccttcctg gttctctggg gtcctctggg tgggtggcat ctcctggagg    2700
gtgatgacaa tccccaacac atgcattcat gtggtgctac tctgtgtgcc aaagctaaga    2760
ccccaagtat gttttctctc tttgtcccat ccctcttttt ctgggacttt ggaccctaac    2820
tacttccctc ctgaaccttg cagtgacatc agtccaggag agctctcgtt cagtgtgcgg    2880
aagaacactc tgacctctag agctgtccta gataaggagt gggagcttta gaggcaaggc    2940
ctctagaccc tggaaggctc agtgaggctc ttcccacagc atgcttctca ctggtgccct    3000
gtaaggctcg agccaccgct gactctgagc cttttggagt ctttcctcct tcgtctccat    3060
tgttcccgtg catttccaaa agcttaagtt gcctggtggg catttcccca gtttctttgg    3120
cctccgtctt ctcaagtcac atagggaaag tacctcctgg aaccaggctg cagtatgcag    3180
gacctgccag gcaggcactg gtgaagggcc ttgggcctat catcccccca accccacctc    3240
accccacccg cctcctctag tggggtgagt ctgggctggt ggaccagaga gggtgtcaca    3300
gaccctcagg gactgcccca tggacacctc tgactggtgt taacagtgtg aacattttcc    3360
ccgtcttcag tcccttagaa tgacgacagc ccctgggggtt ggggcaggcg agtgtggcca    3420
catcatccaa gccctcccag agacacaaat aggctttttt gctctaaaaa taaataccag    3480
cccttttttg gtcacaaatc cagcatctca gcagaaaact gcctgacatg aaaagtcccc    3540
tgaggaactg catctgcgtt tcaggggctt ttcatttttt ctcctttttt aaagtgtaga    3600
ttgtgggtgc ttcctagagg cctgccttct tctggaactg gaagtgggct atcaccatgg    3660
gcaagccctt gggtgcaggc tccccacctg cctgggaact ctggcagctc tcctcagctc    3720
cttgggcttg agcagctgca actgccccag atttgctgtg gaagcagggg ctagccctgg    3780
cctcaccagg gcctcccggg gccctgcatt gatgctcagg agttcctggg ctgctcttga    3840
tcctttctgg gcatccagct tccagttaag ctctgtttgc caaacaaact attctcagct    3900
gccctttggc ctgcgcctga tgtgttcctg ttgcagtccc gcctgcctga cacaggagca    3960
ggcaggagag ccttcatgcc cagattccca caggacaatt ggggagctgc tggcattgtc    4020
tttctgggaa gattctgctt tcttggacca aatggcagcc tgattaccca gtgtcgggcc    4080
tgcatgctgc c                                                         4091


<210> 6601
```

<211> 701
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (499)...(688)
<223> similar to gi3093358 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6601
```
ggaggcggga ggcagtgtca tacgggttct gtggttgaac tgcatcgtcc gagggaacgc      60
tggtcggagc gccgggtgga gcgccagggt cctctggtgg tcgctggatg ttggtagttg     120
tgggtaagag ctctgtgccg ggagtgtctg accccccggg tcctccattc tcagctgcag     180
tggccggagc ccactgctct cccccgcact gggtcgtggt aacccacaag gtgccacctg     240
cgtcactgac catcgtttcc agaagcccct ccggccacac attccatgtg gtatctccca     300
caaggaaatg ttcgtttttt tccctgtgaa gccagaaatt tcttggtggc tctttgccga     360
gccaaacgtt aaccttgagt tgtctctctg ggcggcccca ggtggtacca gttctcacgg     420
gtgttgaagg agagtgagga tggccctgag ggaagcccag ttggtttggt tggggaggcg     480
ttggggctat ggccctgaga gaggtgtggg cggtgttggg accaggcccc ttctgcaccc     540
tcccctggca ccgccgttaa ctctccaggc ctggtgtggc ccaagccacc ctgcctaccc     600
gtgctaccct acccacacgt gccaccctga cctgcttgtg ccatcctgcc cgcccgtgcc     660
acactgccca cccgtgccac cctgcccgg cgcgcggccg c                           701
```


<210> 6602
<211> 2217
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (77)...(1862)
<223> similar to gi791002 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6602
```
ggaagccttg gcactagcgg cgcccgggcg cggagtgcgc agggcaaggt cctgcgctct      60
gggccagcgc tcggccatgc gatccgccgc gcggagggga cgcgccgcgc ccgccgccag     120
ggactctttg ccggtgctac tgtttttatg cttgcttctg aagacgtgtg aacctaaaac     180
tgcaaatgcc tttaaaccaa atatcctact gatcatggcg gatgatctag gcactgggga     240
tctcggttgc tacgggaaca atacactgag aacgccgaat attgaccagc ttgcagagga     300
aggtgtgagg ctcactcagc acctggcggc cgccccgctc tgcaccccaa gccgagctgc     360
attcctcaca gggagacatt ccttcagatc aggcatggac gccagcaatg gattaccggg     420
cccttcagtg gaacgcaggc tcaggtggac tccctgagaa cgaaaccact tttgcaagaa     480
tcttgcagca gcatggctat gcaaccggcc tcataggaaa atggcaccag ggtgtgaatt     540
gtgcatcccg cggggatcac tgccaccacc ccctgaacca cggatttgac tatttctacg     600
gcatgccctt cacgctcaca aacgactgtt gacccaggca ggccccccga agtggacgcc     660
```

```
gccctgaggg cgcagctctg gggttacacc cagttcctgg cgctggggat tctcaccctg      720
gctgccggcc agacctgcgg tttcttctgt gtctccgcga gagcagtcac cggcatggcc      780
ggcgtgggct gcctgttttt catctcttgg tactcctcct tcgggtttgt gcgacgctgg      840
aactgtatcc tgatgagaaa ccatgacgtc acggagcaac ccatggttct ggagaaaaca      900
gcgagtctta tgctaaagga agctgtttcc tatattgaaa gacacaagca tgggccattt      960
ctcctcttcc tttctttgct gcatgtgcac attcccttg tgaccacgag tgcattcctg      1020
gggaaaagtc agcatggctt atatggtgat aatgtggagg agatgggact ggctcatagg      1080
taaggttctt aatgccatcg aagacaatgg tttaaagaac tcaacattca cgtatttcac      1140
ctctgaccat ggaggacatt tagaggcaag agatggacac agccagttag ggggatggaa      1200
cggaatttac aaaggtggga agggcatggg aggatgggaa ggtgggatcc gagtgcccgg      1260
gatcttccac tggccggggg tgctcccggc cggccgagtg attggagagc ccacgagcct      1320
gatggacgtg ttccctactg tggtccagct ggtgggtggc gaggtgcccc aggacagggt      1380
gattgatggc cacagcctgg tacccttgct gcagggagct gaggcacgct cggcacatga      1440
gttcctgttt cattactgtg ggcagcatct tcacgcagca cgctggcacc agaaggacag      1500
tggaagcgtc tggaaggttc attacacgac cccgcagttc caccccgagg gagcggggggc      1560
ctgctacggc cgaggcgtct gcccatgctc cggggagggc gtgacccatc acagacccccc      1620
tttgctcttt gacctctcca gggaccccctc cgaggcacgg cccctgaccc ccgactccga      1680
gcccctgtac cacgccgtga tagcaagggt aggtgccgcg gtgtcggagc atcggcagac      1740
cctgagtcct gtgccccagc agttttccat gagcaacatc ctgtggaagc cgtggctgca      1800
gccgtgctgc ggacatttcc cgttctgttc atgccacgag gatggggatg gcacccccctg      1860
aatgccagga ctgtgagaga ggatccagga gagcctgact gcgttgcaaa caaaattctc      1920
caagcttggt tctatcttca gcttcccttt ttgcaaggaa catgccctgg actgagagtg      1980
ggtccccact ttctttcttt ctttctttct tttttttga dacagagtgt cgctctgtcc      2040
ctcaggctgg agtgcagtgg cgcgatctct gctcactgca acctccgcct cccgggttca      2100
agcgattttc ctgcctcagc ctcctgagta cccgggatta caggcaccag gcacctgcca      2160
ccatgcctag ctaattttg agtttggtg gggacagggt tttaccccat gcccagg        2217
```

<210> 6603
<211> 3167
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(3168)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (129)...(1918)
<223> similar to gi4689258 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6603
```
gcggccgccg cgccggggcc cagccggagc cgccgccctc gcccttgcct ttgcctgcgc      60
ggctcagaat caccatccgc ggcgcgggag acgagccggc cagtcccggg ccgagggacc      120
cgcccgccat ggccaccaag gctcgggtta tgtatgattt tgctgctgaa cctggaaata      180
atgaactgac ggttaatgaa ggagaaatca tcacaatcac aaatccggat gtaggtggag      240
gatggctgga aggaagaaac atcaaaggag aacgagggct ggttcccaca gactacgttg      300
aaattttacc cagtgatgga aaagatcaat tttcttgtgg aaattcagtg gctgaccaag      360
```

```
cctttcttga ttctctctca gccagcacag ctcaggccca gttcgtcggc tgccagcaac    420
aatcaccagg ttggcagtgg caatgacccc tggtcagcct ggagtgcctc caaatctggg    480
aactgggaaa gctcaaaagg ctggggggcc cagccagagg gggctggagc ccaaagaaac    540
acaaacactc ccaacaactg ggacactgcc ttcggccacc cccaggccta ccaaggacca    600
gcaactggtg atgatgatga ctgggatgaa gactgggatg ggcccaaatc cttcttccta    660
ctttaaggat tcagagtcag ctgatgcagg cggcgctcag cgaggaaaca gtcgtgctag    720
ttcctcatcc atgaaaattc cccttaacaa atttcctgga tttgcgaaac ctggcacgga    780
acagtatttg ttggccaaac aactagcaaa acccaaagag aaaattccca tcattgttgg    840
agattatggc ccaatgtggg tttatcctac ctctactttt gactgtgtgg tagcagatcc    900
caggaaaggc tccaaaatgt atggtctaaa gagctacatc gaatatcagc taacacctac    960
taacactaat cgatctgtaa accacaggta taagcacttt gactggttat atgagcgtct   1020
cctggttaag tttgggtcag ccattccaat cccttctctt ccagacaaac aagtcacagg   1080
ccgctttgaa gaggaattta tcaaaatgcg catggagaga cttcaggcct ggatgaccag   1140
gatgtgtcgc catccagtaa tctcagaaag tgaagttttc cagcagttcc taaatttccg   1200
agatgagaag gaatggaaaa ctggaaagag gaaggccgag agagatgagc tggcgggagt   1260
catgatattt tccaccatgg aaccagaggc acctgacttg gacttagtag aaatagagca   1320
gaagtgcgag gctgtgggga agttcaccaa ggccatggat gacggcgtga aggagctgct   1380
gacggtgggg caggagcact ggaagcgctg cacgggccca ttacccaagg aatatcagaa   1440
gataggaaag gccttgcaga gtttggccac agtgttcagt tccagtggct atcaaggtga   1500
aacagatctc aatgatgcaa taacagaagc aggaaagact tatgaagaaa ttgccagtct   1560
cgtggcagaa cagccaaaga aagatctcca tttcctgatg gaatgtaatc acgagtataa   1620
aggttttctt ggctgcttcc ctgacatcat tggcactcac aagggagcaa tagaaaaagt   1680
gaaagaaagt gacaaactag ttgcaacaag taaaatcacc ctacaagaca aacagaacat   1740
ggtgaagaga gtcagcatca tgtcttacgc gttgcaagct gagatgaatc actttcacag   1800
taaccggatc tatgattaca acagtgtcat ccgcctgtac ctggagcagc aagtgcaatt   1860
ttacgaaacg attgcagaaa agctgaggca ggccctcagc cgctttccag tgatgtagga   1920
cagaacgggc cttgaagaga atgccgcgtg ctttctcctg acttggggca atgcaattca   1980
aaactttttt tcccctatta ttcagaaaaa aaaggaaaca aaaccaaaaa gaaagagttg   2040
caaaaaactg catttatttt attagccacc ctaaatgcgt cagttatttta gggatggtct   2100
tttgttcatt tccgcatcca ttatttaaac cagtggaaat tgtctctatt tttggaaagt   2160
acttaaaagt taccagaatt ttcaatggaa aatgaggggt ttctccccac tgatatttta   2220
catagagtca taatttatat gtcttataaa ttataagtct tatataattt ataagtctcc   2280
cacaatcttc cagttcttac ccagtgtcag ataattaatt actaattact ttcttaaaaa   2340
catgaactat gccagaataa aaaatatcta tgtttgtata tttttataac tcctttcagt   2400
cctctggggc tcctgtcatt gagggaagtc gttacgcctt tcactgccac agttcacagc   2460
ttcaagtgct tacacttcaa gaggggaggg acgctggggg gcccctgggg ctggcttagt   2520
gcccatcgtg ggtgtgtggg ccaggtgggg ccatccccat gtccctccag gggggancccc   2580
acagcctggg gcagatgagc agataccct ggccaccat gtcctcagcg acatttctga   2640
tgtgctgctc ttatgtgagg accagtgctt tctctctttg cacttccttc ctaatcttgg   2700
ttaaggcatg tttttatgcca tgaagaatac attagaagaa ttgagggact ttgtagagaa   2760
ttttgtggct ttggtccaac gggtgagtgg ctgtgcggag gcctgtgttc gggagggcct   2820
gggggaagga gggcacccag caccccggcg tctctggccc tttcttattc tttggctcct   2880
catccaccgt gatgagaagc gctgctgtgg ccacggcaca ctgcttggct tgggtggcgg   2940
gttcatggcc agttggtgtc atcagcaaag agaaaaagca caggttagct ccccattaga   3000
tggaaaagtg tagggactga gaagggctgc agcctcagca gtgtacagag tccccggcgc   3060
tctgaggttg gagagaaaga acagaccagc gcccttcctg actacatccg aaacttcaca   3120
cagggtgttt ctgagcacca gcacttccag cgcttcactt aacggca                 3167
```

<210> 6604
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (709)...(71)
<223> similar to gi4323622 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6604
cagatgtcag gacaccctca ctcccgacaa agatgccttt attgggcgac agacgcgggg   60
tggggcgcta gcgggggtgc acggcgggcc ggtaggccgc caggatctcg gcgctgtgcg   120
gacacgtgta tttgaactct ttctcctgca gcgcgctgaa ccaggtagcg gagtacgccg   180
agcagctccg tggtgatggg cgcctgtcgg aagtgcgcgc acaccgtgtc gaccgatgtg   240
cagcttgggc aggaaggctg cagtcggccc aagcgtgaag cctttcgccg tccaggaagc   300
ggcggcggga acttcgcgca ggcttcggct cccccgcca gctcgtgctc ccaggggcgc   360
gcgcaggtag ctgtccaagc cctggcgaag ggcggcgcag cagctgctgg tacagggctt   420
cgtcctgcgc gggcaccggg ttcttgatga acgcggagaa cttgtggaaa acgtcgttgc   480
cggcggtgtt ggactccctg taacgaggcg ccaggctggg gaagtcgggc ggccccagcg   540
tctcctccag aaagtcctcg atctgcagcg tgtctgtctt ggcgtcgctg tcatagagca   600
ggatgggcag ctgcgagccg ggggcgaagt ccttcagcac gtccggggac ctgcgcgtgt   660
ccaccgtggt gagggtgaaa ggtacgccct tgaggagcag gaccatgaag agccgctggc   720
aggaggggca gtgacccacg ctctccccgt cctcactcgc cttgacaaac agctggagct   780
tggtctccgc catggtggga   800

<210> 6605
<211> 2495
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2263)...(1147)
<223> similar to gi29981 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6605
ggccttgctg agtttctcta ggggcaggta gcacacacct gccttatgtc atgtgtttgg   60
aaaaacttttt gtctcctcat aactccagca cagctcagag atgggaaggc gactttttat   120
attaacctga ggagggtatt aaatgaagaa ggcaatccag acaagtggct atttcctcct   180
agctttggct ctggggacac cttggcatcc tgggtgacat ggtaggttac\agagccgcta   240
aaatgggcat gggcagacac actgatccaa tactaagagt tcagctgtag cgtccggtgt   300
ttcatgatac tcacttgtct tcctcccttg caacccagcc atttcatggg accaacgggc   360
caccacaggg catgggatca gatctcaaca cattctgcag gcccttgtcg aaattcttcc   420
ctagttcact agtgggagag ggattgggtg tggttgccaa agaaataaaa gcgttgaaat   480
ttcaatagaa atgccataat ttattccatt gtataaaaaa gtcatcctta tgtaacaaaa   540
tgtcttctta gaagaagaaa tatattattt caggtcataa ataatcagca aacatacaac   600
tgttggcaac taaaaaaaaa cccaacactg gtattttcca tcagtgctga aaacaaacct   660
gcttaagata tatttacagg atagtacagt actcaaaaac aaaaattgag gtatttggtt   720
cttctaggag tagacaatga catttgtgaa ggcagacacc tacacaaaaa taaataaggt   780

5258

```
atattctcat atgtatatgt gtcgtcggga ataatactgg taggtatgtc aagcatgaag    840
agattctaca aaaaacaggg gcgagcaaaa agaaaccgga tcacacactg agtcctttct    900
cttctgcccc attttgtcag atggacttga tgtacccact atatattggt cccgaatgtg    960
ctgagttcag caaatgtctt gacgctaagt catcaccata actgcttaga aacccagagg   1020
aactcgggtg aagttaaata aataaggacc agccctctcg agcccctccc agagttattg   1080
catttctcct ctcaaggagc atggagtccc aatgggatgt gaagagcctc acctcccgtg   1140
gcctttcagc agctgggaga ggtcgtaatg gggctctgaa ggtagctcag cgcactgttc   1200
gtggagtgga cagggatgga gacggggaag ttgaacacgg tggtggtgga ggtgcctcgg   1260
tcgagcacag ccatggcggg gctcccagcc tctgccgaac agtgcggagc cagcacctgg   1320
gactcaaact gcagcagctg gcccatgaag ctgaagttgg gagagatgat gcttcgcctc   1380
tgcttcacaa actcaaaggc ctcgtccagc ttgactcgat tagtcctcat aaggtaagca   1440
aggcagatgg tggctgaccg ggaaatgcct gcctggcagt ggacaaacac ccttcctcca   1500
gcattcttga tggagtctat gaagtcaatg cctcgttga accaggagct gatgtctgcc   1560
ttgtggttgt cctccacagg gatgctcttg tactggtagt gaccctcaaa atggttggga   1620
caattggctg agacgttgat caaggcagtt atgcccaagg catccagcat gtccttgcgg   1680
gaagcgtgat acgcactgcc caggtacaga aagggcagga tttccaccgg gccaccctga   1740
tcgtagagtg gggtactgca ggaactgcac ccagattccg cgctgtcagg gacgctagta   1800
ctcaggggaa ggctgagccc catgggggtc gactgtttgc tgcacagctc cgggcaggaa   1860
gccgaaaacg cttcgtatcc tcctttgagg aagaagactt gcgcggcgcg cgcctcgcgg   1920
cagagcgcgc cggccgccag ggccagggtg ccgtcgcgct tggcgccgtc cagggcggcg   1980
ctgcgctcgt ccagcaacac cacggcgtgg taggcgccgg ccagcaggcg gcgcgcggag   2040
ctcggcgttt gggcaacgat gtgcttccaa ggccccaatg gcgccctttg gccccggcgg   2100
ccgcaacgat ggtgctgaag cgcacgttga cagagccggc gatgtggccg gcgttgaaag   2160
cgaagaagga gcggcagtcc agcagcaggc attgcgccgc tcgctccccc agcagcgccc   2220
gcaggcctcc agcgtccagg gtgcccactt ccatgaccat ggccggcctc agcgcccca   2280
gcgtgatcgg ccctgcggtg ctctttgtct gttctcgggg ccaagggcag ggcggcgctt   2340
ttcgaggaaa agctagaccc ccgggtctct ctgcgccgaa ccaaaagccg cttttggact   2400
gagagaggag cgtcacgcgg ggctccgggc tcctcggctt cttcgcggtt cccccgactg   2460
cccctccgac ccgcgtcgca cacacagccc aaatg                              2495
```

<210> 6606
<211> 5022
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (459)...(4624)
<223> similar to gi5911978 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6606
```
ccgcccttct ttaaccgggt cgacgattat tttggagttc tgccgcgtgt gcaaggacgg     60
gttcgagctg ctctgctgcg acgcctgccc ctcctcctac cacctgcatt gcctcaaccc    120
gccgctgccc gagatcccaa acgtgccccc cactgaaggg caaagtccag cggattctac    180
actggaggtg gacggagccc cctgccccct tcatggtggg gctgccgggg cctgacgtgg    240
agcccagcct ccctccacct aagcccctgg agggcatccc tgagagagag ttctttgtca    300
agtgggcagg gctgtcctac tggcattgct cctgggtgaa ggagctacag ctggagctgt    360
accacacggt gatgtatcgc aactaccaaa gaaagaacga catggatgag ccgcccccct    420
ttgactacgg ctctggggat gaagacggca agagcgagaa gaggaagaac aaggaccccc    480
```

5259

```
tctatgccaa gatggaggag cgcttctacc gctatggcat caagccagag tggatgatga    540
ttcaccgaat cctgaaccat agctttgaca agaagggggga tgtgcactac ctgatcaagt    600
ggaaagacct gccctacgac cagtgcacct gggagatcga tgacatcgac atcccctact    660
acgacaacct caagcaggcc tactgggggcc acagggagct gatgctggga gaagacacca    720
ggctgcccaa gaggctgctc aagaagggca agaagctgag ggacgacaag caggagaagc    780
cgccggacac gcccattgtg dacccacgg tcaagttcga caagcagcca tggtacatcg    840
actccacagg cggcacactg cacccgtacc agctggaggg cctcaactgg ctgcgcttct    900
cttgggccca gggcactgac accatcctgg ccgatgagat gggtctgggc aagacggtgc    960
agaccatcgt gttcctttac tccctctaca aggagggcca ctccaaaggg ccctacctgg   1020
ttagcgcgcc cctctccacc atcatcaact gggaacgcga gtttgagatg tgggcgcccg   1080
acttctacgt ggtcacctac acggggggaca aggagagccg ctcggtgatt cgggagaacg   1140
agtttttcctt tgaggacaac gccattcgga gtgggaagaa ggtattccgt atgaagaaag   1200
aagtgcagat caaattccac gtgctgctca cctcctatga gctcatcacc atcgaccagg   1260
ccatcctggg ctccatcgag tgggcctgcc tggtggtaga tgaggcccac cgcctcaaga   1320
acaaccagtc caagtttttt agggtcttaa acagctacaa gattgattac aagctgctgc   1380
tgacagggac cccccttcag aacaacctgg aggagctgtt ccatctcctc aacttcctga   1440
ctccagagag gttcaacaac ctggagggct tcctggagga gtttgctgac atctccaagg   1500
aagaccagat caagaagctg catgacctgc tgggggccgca catgctcagg cggctcaagg   1560
ctgacgtgtt caagaacatg ccggccaaga ccgagctcat tgtccgggtg gagctgagcc   1620
agatgcagaa gaagtactac aagttcatcc tcacacggaa ctttgaggca ctgaactcca   1680
aggggggcgg gaaccaagta tcgctgctca acatcatgat ggacctgaaa aagtgctgca   1740
accacccccta cctcttccct gtggctgccg tggaggcccc tgtcttgccc aatggctcct   1800
acgatggaag ctccctggtc aagtcttcag ggaagctcat gctgctacag aagatgctga   1860
agaaactgcg ggatgagggg caccgtgtgc tcatcttctc ccagatgacc aagatgctgg   1920
acctcctgga ggacttcctg gagtacgaag gctacaagta tgagcggatt gatggtggca   1980
tcaccggggg cctccggcag gaggcaatcg acagattcaa tgcccccggg gcccagcagt   2040
tctgcttcct cctctcaacc cgggcaggtg gtctgggcat caacctggcc acggcggaca   2100
ctgtcatcat ctacgactcg gactggaacc cgcacaatga catccaggcc ttcagccgcg   2160
cccaccgcat cggccagaac aagaaggtga tgatctaccg cttcgtgact cgggcctcgg   2220
tggaggagcg catcacgcag gtggccaagc gcaagatgat gctcacccac ctggtggtgc   2280
ggcccggcct cggctccaag tcggggtcca tgaccaagca ggagctggac gacatcctca   2340
agttcggcac ggaggaactc ttcaaggacg acgtggaggg catgatgtct cagggccaga   2400
ggccggtcac acccatccct gatgtccagt cctccaaagg ggggaacttg ccgccagtg    2460
caaagaagaa gcacggtagc accccgccag gtgacaacaa ggacgtggag dacagcagtg   2520
tgatccacta tgacgatgcg gccatctcca agctgctgga ccggaaccag gacgctacag   2580
atgacacgga gctacagaac atgaacgagt acctgagctc cttcaaggtg gcgcagtacg   2640
tggtgcgcga ggaggacggc gtggaggagg tggagcggga aatcatcaag caggaggaga   2700
acgtggaccc cgactactgg gagaagctgc tgcggcacca ctatgagcag cagcaaggag   2760
gacctggccc gcaacctggg caagggcaag cgcatccgca agcaggtcaa ctacaacgat   2820
gcctcccagg aggaccagga gtggcaggat gagctctctg ataaccagtc agaatattcc   2880
attggctctg aggatgagga tgaggacttt gaagagaggc cggaagggca gagtggacga   2940
cgacaatccc ggaggcagct gaagagtgac agggacaagc ccctgccccc gcttctcgcc   3000
cgagttggtg gcaacatcga ggtgctgggc ttcaatgccc gacagcggaa ggccttttctg   3060
aacgccatca tgcgctgggg catgccccccg caggacgcct tcaactccca ctggctggtg   3120
cgggaccttc gagggaagag cgagaaggag tttagagcct atgtgtccct cttcatgcgg   3180
cacctgtgtg agccgggggc ggatggtgca gagaccttcg cagacggcgt gccccgggag   3240
ggcctctcca ggcagcacgt gctgacccgc atcggggtca tgtcactagt taggaagaag   3300
gttcaggagt ttgagcatgt caacgggaag tacagcaccc cagacttgat ccctgagggg   3360
cccgagggga agaagccggg cgaggtgatc tcctcggacc ccaacacacc agtgcccgcc   3420
agccctgccc acctcctgcc agccccgctg ggcctgccag acaaaatgga agcccagctg   3480
ggctacatgg atgagaaaga ccccgggggca cagaagccaa ggcagcccct ggaagtccag   3540
gcccttccag ccgccttgga tagagtggag agtgaggaca agcacgagag cccagccagc   3600
aaggagagag cccgagagga gcggccagag gagacggaga aggccccgcc ctccccggag   3660
cagctgccga gagaggaggt gcttcctgag aaggagaaga tcctggacaa gctggagctg   3720
agcttgatcc acagcagagg ggacagttcc gaactcaggc cagatgacac caaggctgag   3780
gagaaggagc ccattgaaac acagcaaaat ggtgacaaag aggaagatga cgaggggaag   3840
aaggaggaca agaaggggaa attcaagttc atgttcaaca tcgcggacgg gggcttcacg   3900
```

5260

```
gagttgcaca cgctgtggca gaacgaggag cgggctgctg tatcctctgg gaaaatctac    3960
gacatctggc accggcgcca tgactactgg ctgctggcgg gcatcgtgac gcacggctac    4020
gcccgctggc aggacatcca gaatgaccca cggtacatga tcctcaacga gcccttcaag    4080
tctgaggtcc acaagggcaa ctacctggag atgaagaaca agttcctggc ccgcaggttt    4140
aagctgctgg agcaggcgtt ggtcattgag gagcagctcc ggagggccgc gtacctgaac    4200
atgacgcagg accccaacca ccccgccatg gccctcaacg cccgcctggc tgaagtggag    4260
tgcctcgccg agagccacca gcacctgtcc aaggagtccc ttgctgggaa caagcctgcc    4320
aatgccgtcc tgcacaaggt cctgaaccag ctggaggagc tgctgagcga catgaaggcc    4380
gacgtgaccc ggctgccatc catgctgtcc cgcatccccc cggtggccgc ccggctgcag    4440
atgtcggagc gcagcatcct gagccgcctg accaaccgcg ccggggaccc caccatccag    4500
cagggcgctt tcggctcctc ccagatgtac agcaacaact ttgggcccaa cttccggggc    4560
cctggaccgg gagggattgt caactacaac cagatgcccc tggggcccta tgtgaccgat    4620
atctagccgt cctcgagact tccctgtgtt gcagcgctca tttccagctg agccacgcct    4680
gccgggccac ctgcccgacc cacatgggag agaaaagctg ccaccttttt aggagccagc    4740
accaccttgg gacaaaaagg gaaacctagt aatgccatca catggaggac gaggcccagc    4800
tcagctgggc cagagcccag aagtgccacc tcatcataat tcaagtgttc ttccacacag    4860
cgttgccccc acaaccacgc cggacgtgcc ccctcgccac ctttttccaga cgacttctta    4920
gaagagattt catttatttg tacatctttt gcactttcct attgaagact tgaacacgtt    4980
tgtcttgata aaagttggat gacgtatgga agattcgaaa aa                       5022
```

<210> 6607
<211> 1108
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(1109)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (887)...(257)
<223> similar to gi5912221 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6607
```
tggcgtcatc tttgtcttca tgttccttca ccttcatgtc ctcctgcagt ttggccgact     60
cttcctcccc aatgtatctg ctgaaaacca caggatgggc ctcacccatg aaatcgtgct    120
cggcttcctc tatgtccacc acatccgagt cagaatcctg cctgaggaga gtccacggct    180
ctgaatcgtg ggagttgggg ctttttgaac aactaacata taaccttccc tcggtgtctt    240
catcggccct gcctacatga aggaagaagc catccgtgga tggtccctgg gggaacggat    300
cgaatccgcc aagggccaga ggcccaccac agacctctcc tgcggtttcc actgacagtg    360
gtcctgtctc ggtggggtcg atgcccatgg ggaattctga gcatggaatc ggggtaaaag    420
tcctattcaa gtcgcgactg ccagtcattt tccttcgtac caaaggctgg gggccctcgc    480
tgggcctcct agacacgatg ctcctcggtc tcccttcccc ccgttcatcc tccttggtga    540
tcacctgctt ctctttcgct ggcttaagaa ctgctggcat caaaggctcc aagaaaaaac    600
tgtcaggctt actttccgag gtgtccagct gtccttgggg agaccgggca tttgctgtaa    660
ggcctaaggc ccggggtgag gccctgggga actccgggtc agcctgctgg ggaaccacgt    720
ctgctctaac aatagccaca agctcctctt cctcatcctc aatactgaca ttgctcagga    780
```

```
ggctcttccc gtggctcttc gtggccgtgg ggtgtggctg gttctgtggg gtcagattaa    840
caatgttgga tgccaaactg tctttgctga tggagcgggc caagctgatg ctgtcgccag    900
agctgggatc cacttcacaa ctcgcagcgt gatgtagagc aaaaggtgtt ggctgggacg    960
caggcctggt tttttttttct ggccaggcta ttgctgctcc tcgaggctga ccatcaactc   1020
gggtcaaagc ggacgcgtgg gcggacgcgt gggcggacgc gtgggtcgac gcaggtactc   1080
agngacgntc gcatcggggn gtccgatt                                      1108
```

<210> 6608
<211> 4946
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1249)...(3708)
<223> similar to gi397579 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6608
```
gcatgattcc agcagggggc cgagcccctg ggccccccta cagccctgtt cctgcagaat     60
cagaaagtct ggtaaatggg aaccacaccc cacagactgc aacacgggga ccctctgcct    120
gtgccagcca cagttccctg gtgagctcta ttgagaagga cctgcaagag atcatggact    180
cactggtgct agaggagcct ggagctgctg gcaagaagcc tgccgcaacc tctccactgt    240
caccgatggc taatggtggg cgctacctgc tgtctccccc aaccagcccc ggcgccatgt    300
ctgtgggctc cagctatgag aacacctctc cagccttctc tccactctct tcaccagcca    360
gcagtggaag ctgtgccagt cactcaccca gtgggcaaga gccaggacct tctgtgcccc    420
cgctggtacc tgcccgttcc tccagctacc atctggccct acagccccca cagtcccgcc    480
caagtggtgc tcgctccgag agtcctcggc tgagcaggaa agggggccat gagaggcctc    540
ccagccctgg cctccggggt ctgctgacag acagccctgc agctactgtc ttggcggagg    600
cccggagagc cactgagagc ccccggctgg gtgggcagct gcctgtggtg gccatcagcc    660
tgagtgaata cccagcttct ggtgctctca gtcaacccac cagcattcct ggcagcccca    720
agtttcagcc tccagtccct gctccccgaa acaagattgg cacactccag gaccgccctc    780
ccagcccttt ccgtgagcct ccaggcagtg agcgggtgct aacaaccagc ccctcacgcc    840
aactggtggg ccgaacattt tcagatgggt tagccacccg taccctgcag cctcctgaga    900
gtccccgcct gggccggcgg ggcctggaca gtatgcgaga actacccccc ttaagtccat    960
ctctgtcccg gcgagctctc tccccgctgc ccacccggac caccccagat cccaagctaa   1020
acagggaagt ggcagagagt cctcggcccc ggcgctgggc agcccatggg gcttcaccag   1080
aggacttctc cctgacgctg ggggcacggg gccgtaggac acggagcccc tcacccacac   1140
tgggtgagtc tctggcaccc cacaagggca gcttcagtgg caggctgagc ccagcctaca   1200
gtctgggctc tcttactggg gcttcaccct gccagagtcc ctgtgtccag aggaagctct   1260
ccagcgggga cttgcgggtg cctgtcacaa gggagcggaa aaatagcatc acagagatca   1320
gtgacaatga ggacgacctc ctggagtacc accggcgaca gcgccaagag cggctccggg   1380
agcaggagat ggagaggctg gaacgccagc gcctggagac catcctgaac ctgtgtgccg   1440
aatacagccg ggctgatggg ggacctgagg ctggggagct tcccagcatt ggggaggcca   1500
ccgcagcatt ggcactggca ggccggaggc cctcacgagg ccttgcaggg gcctctgggc   1560
ggagcagcga ggagcctggc gttgccaccc aacgcctatg ggagagtatg gagcgctcag   1620
atgaggaaaa tctcaaggag gagtgcagca gcactgagag cacccagcag gagcacgaag   1680
atgcacctag caccaagctc cagggagagg tgctagccct ggaagaagag cgggctcagg   1740
tgctggggca cgtggagcag ctcaaggtcc gtgtgaagga gctagagcag cagctgcagg   1800
agtcagcccg agaggccgaa atggagcggg cactgctgca gggagagagg gaggcagagc   1860
```
```

```
gggcactgct gcagaaggag cagaaggcag tggatcagct gcaggagaag ctggtggcct    1920
tggagacagg catccagaag gagagggaca aggaggcaga ggccctggag actgagacaa    1980
agctctttga ggacttggag ttccagcagt tggagcggga gagccgcgtg gaggaggagc    2040
gcgagctggc cggccagggg ctgctccgga gcaaggctga gctgctccgc agcatcgcca    2100
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cagccacact gcaggacatc gagaccaagc gccaactagc tctgcagcag aagggacaac    2700
aagtgattga agagcagcgg cggcgactgg ctgagctgaa gcagaaagcg gcagctgagg    2760
cacagtgcca gtgggatgcc cttcacgggg cagcaccctt cccagcgggc ccctcgggct    2820
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gatgtcattg tcacaggggc tgagggctac actcagttca tgaactaact gccgtgggcc    3720
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tggtcctgtg agtttctggg ctatggcctc atgaagaacc agccagaaga agaaaagtag    3840
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ccaggcccag ccagggctgg aggagctgtc acagagaggg cctcagctct gacctgacac    3960
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ggcacataca gagtgggggta atagctcagg cggcccgctt cccatttctc aaaccccgct    4140
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catggttacc atagtgactg cttcattgcc atggttacat actaattgct gcagctctgt    4320
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cctcgccctt cacgccttaa cactaagccc acctcccctg ctctccttcc cagcattgag    4860
cccttggttg cctgggccca ggctgggggt tttcagtatt tgtaagcatt tcagcagaac    4920
aataaagcct ttggactacg gaagtg                                         4946
```

5263

<210> 6609
<211> 2389
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (805)...(1806)
<223> similar to gi1613858 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6609
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ggtagaggga tcttctgcag aaatagcgct ggaagctaga gtgaggcctg agtactgcct   180
tggcctagga tggctagaga attaagtgaa agcacagccc tggatgccca gtctacagaa   240
gaccagatgg agcttctggt cataaaggtg gaggaagaag aagccggttt tcccagtagc   300
ccagatctgg gttctgaggg ctcccgcgag cgcttccgag gcttccgcta cccggaggct   360
gcaggccccc gcgaggcgct gagtcggctc cgagagctct gccgacagtg gctgcagcct   420
gagatgcaca gcaaggagca gatcctggag ctgctggtgc tggagcagtt cctgaccatc   480
ctgccgggga atctgcagag ctgggtgcgg gagcagcatc cagagagcgg ggaggaggtg   540
gtggtgctat tggagtattt ggagaggcag ctggatgagc cggcgccgca ggtttcaggt   600
gttgaccagg ggcaagaact gctctgttgc aagatggcac tattgacacc agccccaggg   660
tcacaaagta gccaatttca gctaatgaag gctctgctca agcatgaatc tgtgggatcc   720
cagcctttac aagatagagt tctccaggtc cccgtgcttg cccatggagg atgctgcaga   780
gaagataaag tggtagcttc taggcttact ccagagtccc aggggttgtt gaaagtggaa   840
gatgtggccc tgaccctcac ccctgaatgg acacagcagg attcatctca ggggaatctc   900
tgtagagatg aaaagcagga gaaccatggc agcctggtct ccctgggtga tgaaaaacag   960
actaagagca gggacttgcc tccagctgag gagcttccag aaaaggagca tgggaagata   1020
tcgtgccacc tgagagaaga cattgcccag attcctacat gtgcagaagc tggtgaacag   1080
gagggcaggc tacaaagaaa gcagaaaaat gccacaggag ggaggcggca catctgccat   1140
gaatgtggaa agagttttgc tcaaagctca ggcctgagta aacacaggag aatccacact   1200
ggtgagaaac cctacgaatg tgaagagtgt ggcaaagcct tcattgggag ctctgccctt   1260
gtcattcatc agagagtcca cactggtgag aagccatatg agtgtgaaga atgtggtaag   1320
gccttcagtc atagctcaga ccttatcaag catcagagaa cccacactgg ggagaagccc   1380
tatgagtgtg atgactgtgg gaagaccttc agccagagct gcagcctcct tgaacatcac   1440
agaatccaca ctggggagaa gccgtatcag tgcagtatgt gtggcaaagc ctttaggcga   1500
agttcacatc tcctgagaca tcagaggatc catactgggg ataaaaatgt tcaggaacct   1560
gagcagggag aggcctggaa aagtaggatg gaaagccagt tggaaaatgt tgaaactccc   1620
atgtccttat aaatgtaatg agtgtgaaag aagtttcact cagaatacag gcctcattga   1680
acatcaaaaa atccacactg gtgagaaacc ctatcagtgt aatgcgtgtg aaaaggctt   1740
cacccgaatt tcataccttg ttcaacatca gagaagccat gtagggaaaa acatcctatc   1800
acagtgaccc atgccataca tgccagagtt ggtgctcatt tgtcactgat ctgaagccac   1860
tcccctggga gtctcaacta tagaaattgt ggggtgggct ttatttacca ctacacatta   1920
tcaggtgtta gaaaatgtag actgggttag acaaattatc ttctaagttc tagaaggggt   1980
ttgtaatcaa aacatattta gtaggaggct acgggagagt tgtctagaag aggtaagacc   2040
tgaaactgtt tgttctctcc cactagaatt aaatggatgt ttagactggc tacttgccct   2100
aaaccagcac ttggtgatgt ctactgggtg gatggttgtg atttgggggc tgcttctctg   2160
accattcttt ttgactgtaa tgaatcctcc acagttggtc agattcataa agtcttatat   2220
ccccctctgt gccttttctg caggtgctaa taaatgttta ttgaatgtac cagtgagatt   2280
accttcatag atctgaaaat ctgatgttat ccaggtttct gaagaacttc tcgccaaggc   2340
catttgtgct tgtgtccaat tctctgacct agattgtgac tcagtctag   2389

<210> 6610
<211> 3165
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (2875)...(1820)
<223> similar to gi32469 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6610
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ctcagcccag ctggttttgg ttcgtctctg aggctcagtg ttacagcgac tggctccacc   120
actcccctcc ctggccactg ggctccccag gcagggagga ggagaggcag ttcatctgtg   180
atgttggaaa gaatgggcag cagggtcaga ggccaaagaa agccatacaa gcagcggcat   240
gcctggagct ggagctgcca tcacatgcca agccccacca cacacacgcc cccgcgggtg   300
gccttgccct cgaagctctc tgccagccca cactcctcag ctttctgggg ccacaccctg   360
ctcaggcaga catgccactc gccctggctt gttcctggga ccccaggctg cccaagggaa   420
aggtaccgct cccaggtgct gcgcggctct gccctgccca ctctaaccct ggggctagca   480
agacgtgtca ggggaaccaa ggctcagatc attccccctt catctacaac cctgccagcc   540
ctacagggat aaatcaaaag acaaaatctc cccatctcac agcgagtgac aagccgacct   600
gggctactac atgtcccaag atgcacagct ccgtaaccat acaccacctc ccccaagcgg   660
gatctatcag aaatgaggcc gggcacccccg cactctggga tttgtagtcc ccaggagcca   720
gcaccaaaca cccaaggaag agagtgcaca ggctaagact actgccacct cccacccggc   780
ccccacccgc cacccaggcc ccggctctac actcagcatg ggtgaggggg agaaatggag   840
ggtcccctcc cagcgcatgg gggaaggcgc tgtcctgttg gaactgtgca gcgattctgg   900
aacccggcat ccagctcaga acacatctgg ggagagagca ggggcggggt gacaggagag   960
agcgtcagcg gcaagctgtg gaggatgggg ctcagcatgc agacctgggc tgccgcatgg   1020
cctctccctg agccctgatt tgtggtaggg aagcagtatg ggtgcagtcc cctcctatcc   1080
cacctcttca gggtgagcca gcctcacctc tgcctagtct gagggtgagg gcagggctga   1140
ggcaacgaga gggaggagga gtgggctcca gttctgaatc tggacagctg agaggctccc   1200
gccccacccg gctagcctcc ccagaagatc tcacagccct accggcccca gcatcttcct   1260
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gaaagcaagc gatgcggccc gcagggagtt gcagagagaa tgggagggag gagaagcaac   1380
accagaagag aagcaacaga gacggtcaga gcgcaacatg gcacagaaaa ccagggttgg   1440
gggtctgcag ctggtcccag gagagcagga ggctccactc tgcctgcact gctctccagt   1500
ggagctgccg gctccggctc agacaaccct aggccaagtc ctccttcctt gacaccatca   1560
gcaacacagg tggcagagta ccagggcaca aaaggcccag cccaaaccac taatgcccct   1620
tggagctccc catccaataa atgcaacctg gctcctcggg cccctccact gccctgacac   1680
cccccatcct gggcttcacc agggacctat cagccctggg ctgagcacag caaatcccaa   1740
gtccacactg gggtgtgggg ggcctgggga gggaaacttg tggagggagc ttggagttgg   1800
aaagcagttc ctacaactca ggatactccc ctcttctctt cccacagtga gtcagacccc   1860
ccagtcaaga tctggatcag atcaggttgg gcccggtgtt cagaggatga ggcagcgaga   1920
ggccttctcc tctggggatg gactgcgttt ggttgcttca cccctcgcac cctcctgggt   1980
ccccccaag cctggatctt ggtgctgggc cttgggccgc ccctgccgtc ggtgctgtgc   2040
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ggccagctgc aggtcctcat cctcagagag gtcgctgtcc aagggggcatg aggcaggggt   2160
ctgctggacc tgagtgcccc cagacctgga agtgactgac ggctgctgct cgcgacggct   2220
cagctccaag cccagtgcca ggtcatctgg gacaccattg attgtgactg acttcagctg   2280
cccatcctcc tccacttcca cccgctcctg cccgttctcc atgattctgc gtgtggtgat   2340

```
gcggcgtcct tggacaaagg tggtagatgt agaaacagag cgaaaagcac cagccccagg     2400
actgaaggag aaagatgagg aggagaaatc ggagtgccca gggaaggagg aagagaaggt     2460
aaagaagggg cctgagtgtc gggaaccccg gttctgaagc tctgagaagg ggcccaggtc     2520
atcaaagagc tctgcaaaag ggtctccact cccaaagaat tcccggaaga cctcctcggg     2580
gctgcggaag gtgaaggtga agccaggccc accactgcca gcttctgccc gagatgggcc     2640
agttcctgtc cctgtcagcc cttcccggcc atagcggtcg taaatctccc gcttgtgctt     2700
gtcagacagc acttcatatg cctcggccac ctccttaaat ttcttctcag caaactcttt     2760
attatctggg tttttgtctg ggtgccactg gagagccttg cgccgatacg ccttcttgat     2820
gtcatcagcg gacgcacttc gcggcacgtc taggatctcg tagtaggatg ccatggcaac     2880
tggtcagtcg tcaggcgggc ctccttgggg ctgcagaaga gaaggagtca ggcggaaaga     2940
accaagagcc ccaccctgtg gctgcagcag tccccctccc cgggtggcgg aaggcgctcc     3000
cagttggaag cggagcacag cgggctctgc ttgcggccgg tgactaggct ccctccggca     3060
gcccttatctg ccccccgcagg ccggggccaa gagctatctc gacgcccagg accaggagcc     3120
catatcggggg ccccccaact ccagcagtcc gatccacgaa atcgt                     3165
```

<210> 6611
<211> 2148
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (593)...(1719)
<223> similar to gi1063398 in the genepept database release 114,
   Run with FASTXY 3.3t00, default parameters

<400> 6611
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acctgggttc ctgaagggcg ggtggttagg tcgtaactac tgccccgcc ggctgagtct        120
ccgagcggcc gggctcggaa gccacgagcc agctgaggcg ttctccgctt agtgcctacg       180
gcatgggtca gctctttctg ccacctccgc cttcgcggtc ctcacctctt tgcgggtgaa       240
gttacctttg ggtttccaga ccttggggggc ctgaggccca aactcgggac gaaccccctaa     300
cccacctctc ttttcctgtc attctccaac tcttactttg taccacggaa tcacttggcc       360
ttaaagctag ccagctcggc cgtgccttga ggccaggttc gagagataaa ggtaaccgtg       420
gggaaagcgg cccccccagtg gacaaaggcg gaggcaagaa tagagcaggc ctgagggcca      480
taggcgatga gaataggcag ttgaggggtg aaaaagaaaa caaacaaaca acaacaacaa       540
accctgaaga gtactgaaga tttagaaggg actggaaagg acttgttgcg caatggaaga      600
atctgactct gagaaaacga cggagaaaga aaatctgggg ccgagaatgg atccaccact      660
aggggaaccc gggaggatcg cttgggtggg tgctaccaaa tacagccatg aaaaaaaagg      720
tgctgttgat gggtaaaagt gggtctggta agaccagcat gaggtctatt atctttgcaa      780
attatattgc cagagacaca cgtcgccttg gcgcaacaat actagaccgt atacatagtc      840
ttcaaattaa tagcagtttg agcacctact ctctcgtaga ctctgttgga aatacaaaga     900
catttgatgt agaacattct catgttcgat ttctgggaaa cctggtattg aacctgtggg      960
attgtggtgg gcaagacacc ttcatggaaa attatttcac tagccaacgg acaacatct       1020
tccgaaatgt ggaggttctg atttatgtct ttgatgtgga gagccgcgaa ctggaaaagg     1080
acatgcacta ttaccaatca tgcctggagg ccattctgca gaattctcca gatgccaaaa      1140
tattttgctt ggtacacaaa atggatctgg tacaggagga tcaacgggac ctgattttta     1200
aagagcgaga agaagatttg aggcgtttgt ctcgcccatt ggaatgttct tgtttccgaa      1260
catctatctg ggatgaaacc ctctataagg cttggtccag catagtttat cagctgattc     1320
ccaatgttca gcagctggaa atgaacctaa ggaattttgc tgaaattatc gaagctgatg     1380
```
```

```
aagtacttct ttttgagaga gctactttc tggtaatttc tcactatcag tgtaaagagc   1440
agcgtgatgc ccatagattt gagaaaataa gcaacattat taagcagttc aagctgagct   1500
gcagcaagct ggctgcctct ttccagagta tggaagtcag gaactctaac ttcgctgctt   1560
tcattgacat ctttacatcc aacacttatg tgatggttgt gatgtctgat ccgtccattc   1620
cttctgcagc tactctgatc aacatccgca atgccaggaa acactttgaa aagctggaaa   1680
gagtggatgg accaaagcag tgtcttctca tgcgctaaac attgatgaat attgtttcac   1740
acaaaaatta aaagtttcct aattaatgtt gtattcatat atgtaggctc tgaaatgttg   1800
tgatgcttat tgcttctgta tttcttctct actccctagt cttaatgttt aaccttgaat   1860
gctattaact taaatagcca ttgaggagtt agaagatgaa ttgttcatga agtcggtgtt   1920
acataaaagt aggtgatatg taagttttct gataacaagg ttctaatagt gtttaaatgt   1980
actggtaacc tggttccaat agttgtgttt gcccaagcct ttctcggcat catcttgtat   2040
tccttatcag atagtaagta acctgtaagt ttggagtatt actgttttct cagcatgcat   2100
taaaaatatt ccttaacttc aattgtaaat aaacttttgg tgttaggg             2148
```

```
<210> 6612
<211> 2127
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (342)...(202)
<223> similar to gi4240323 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters
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<400> 6612
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catattgctc ttctaacttt tcttcttttt acatttatcc acattccaag tagattatca    180
tagtaaggtt cttctgtgtt acttttgtcc aagttgtgac aactgtttta tgaactgtgt    240
agcattaaaa agctcactgc agccatataa aatgtgtttg ccttgtttcc cctttatgta    300
gtcaacaaga ttctgatatt caatgtagtt gcctcctccc accacaaaaa caatggcctc    360
ttggaatgga tttttatttc tgggaactga gctgtcattg ccccgcagca ttttgggatc    420
aaaatatcta tagtcatcag tttcggggtt tgacttcatc tccataagat tgtccaaaat    480
acgagtaaca ggtagatttt gctgtttcaa aaccaggttc ttcactcctt ccatcacaaa    540
ctgtgatcct gtattcatga ctcgtgataa aagacccatt ggtttagtgg tagtgctgcc    600
atagctggcc ggagctgagg ccatcttggt aaaagccttc cactgtttga tatattgtaa    660
aggattaagg ttgcatcctg catcagttaa agctttttta tattgctcca atcagcctc    720
agaaggtgct tgctgtgtgc ttatataata gataagaaac aacctcattt tatcttctgg    780
agttcctgca tcagggtctg atattatatc tagaagagat ttatccagag tagttttgct    840
cattattttt tcttcatatt caaaatatac atccaatttt cttgccttta tatgttctaa    900
aacagcagtg gcaacatttg tatggagatc aataagtctt tttttctcaa ggagttctga    960
gcaaagaact aacagctgat gttagcttag cggtattgtc agaaagcata cttatggctc   1020
cttcatcttc cccttctagt cccataatgc ttttaagtcg tttgacctca tcttcctgtg   1080
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ttggtctagc accagctgga gagttttcca ctcctgaaga ttcttccaaa ttaaccctgt   1260
ttaaatggaa atccagtaca tcgtgcacca atgcttgata tgtccaagta tgatgtaaag   1320
gagttgccaa atctatgttt ctgtcaacaa ggactaataa gggcctctgg aagctgaatt   1380
ggccagctcc aagtgtatca cctgtaaaaa gactgtttct tgcatctctt agattttctc   1440
```

```
gaagtttctt gtctagtttc actgctacca tttctgctgc tgttcctctt gaacatctga   1500
ttataggaac agcacccaga gtaacaaaaa agcagaagag gctgtcaact atagtgtcca   1560
taacagtttc catttccgtg tctgtgatat ctggcctgtt aatggcacga tatgaaacaa   1620
gctccttatt ttgattacat aatacaaaca tatcatcttc caaagtaata aaattgagat   1680
attggtcccc aaaccttggc tacttgtgtt acttgcactt aggccccgaa cgctggcatt   1740
tgcaatatct tccagtttac ttcttgaaat agcagaaata aaatttaaat aatatgattc   1800
atatagttga tttcgaagat cctggcacat tctgtcaata ttttcttcag ttggcattac   1860
aaagtatact gcaggaacat ctggaatagg atctcgatca gagtgtaaaa gcagatgcag   1920
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cacattgaaa ttcaacatac gcttcaaagc cactgtctgc ctttcccgaa tactggctgc   2100
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```

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catttaattc tcaaatgttt ctgcttttga atgcagtttg ggagagccca tggtgactgc    300
gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt cctgagaatg    360
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```

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```

<210> 6614
<211> 5427
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (3614)...(1002)
<223> similar to gi3043650 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6614
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ctcccgagta gctgggacta caggcgcccg ccaccgcgcc cggctaattt tttgtatttt    180
tagtagagac ggggtttcac cttgttagcc aggatggtct cgatctcctg acctcatgat    240
ccacccgcct cggcctccca aagtgctggg attacaggcg tgagccaccg cgcccggcct    300
cttccctcct atcattttcg tgttctggag acagtagcat acttggccct gggtttgaca    360
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gcgaaaatgg gaggagagca gcggttaagc aatgatgtga tggggctaaa taaaaatgga    780
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```
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5269
```

```
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5270

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```

```
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```

5272

```
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5273

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cgcgatgacc gcaagccagg caagggcagc tactggacgc tggaccctga ctgccacgac     360
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<400> 6618

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ccagcccccg cagtccgccc agaccgtaaa gggggacgct gaggagccgc ggacgctctc   180
cccggtgccg ccgccgctgc cgccgccatg gctgccatga tggatcggaa gtgagcatta   240
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cggctgcgag aaagatggcg gacctggccg agtgcaacat caaagtgatg tgtcgcttca   480
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cagatgaagt tatggatacc atagatgaag gaaaatccaa cagacatgta gcagttacaa  1020
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5275

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<220>
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<222> (150)...(1335)
<223> similar to gil192382 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

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<211> 990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (291)...(679)
<223> similar to gi5830442 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

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<210> 6621
<211> 1887
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (327)...(142)
<223> similar to gi299471 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6621
gtggcgtgtg cttgtaatct cagctacttg ggaggctgag acaggagaat tgcttgaacc   60
cgggaggtgg aggttgcagt gagccaagat catgccactg cactccagcc tgggtgacgg   120

```
agcaatactc catctggagg aaaagaaaaa gcaagcaagc caggtgtgat ggcaggcacc      180
tgtggtctca gctactcggg aggctgagac aggagaatca cttgaacccg gggggtggag      240
actgcagtga gccgagatcg caccattgca ctctggcctg ggctggcctg gatgatgagc      300
aaaactctcc cccccaaaaa aaaatcccag tccgttacac ggtagctttg gggaattatt      360
tttaaaattt ttaattgttc ttgctgtctc cctttgaagt gactagtact ctggtgagtt      420
aatctgctac atctcagcta aaccagtcaa agttcagaaa atctaggcag gagccacctg      480
tagttatctc accattgttt ctccaggtgc agttagagcg gatccggcaa gctgactcct      540
tggagagaat ccgggcaatt ctgaatgata ctaaactgac agacattaac cagcttcctg      600
agacatgaca ccctcatggc aggattctag cctgcacttt gggtttttaa ctcatcttta      660
gagcaacagt aattattatt taactcttaa ctgaagaaag agaagtcaca acaaaaggaa      720
gactggagaa atgcttactt ctagagggag aagactgtgc ggcacaggaa acagcaaaca      780
gtggggtgat ctgcagccca gagaccttca aatgcgaaca ctataaactc caggcttgat      840
tccaacaggc gtgggatcag atttggtgat ggaaaaagcg ctgtttcctt gcctgctttc      900
tccaagacag attttcggaa cacatttccc taccctaaag cgacatccca gtagtgtttg      960
gaattttctg ttcatagata ttggaagaga gaatttgctt tatctgttgt ctagagctca     1020
tcagtaacag tattcagtta gcagacagaa gtgtagtatg ctgtatgaat attttatatt     1080
aaaatatgaa ggtttgagag caggccattg gctactgact gtatttccct tgctcagtac     1140
attttgtttt tccttttacc attttatctt atcttgcttt ggaggacctt aaatgctact     1200
gaaacttacc tgagaaccat aggactgtgg caaacaaaac caattcatga agtgaattaa     1260
tgatgaggat ctgaaaactt ggctggggct atatatactg gaagttgaag gttaaaggaa     1320
aagcacaaga aactttggaa gcacttttc tgcatactta gatgatcttc atgggcccac     1380
agggtaccag gataaagccg aactggtacc atctactctt ttgaagtgtt ttagtctagt     1440
tattggatca gtgaaaaaca ttagtatacg tttttaaata ggctaatttt tcaacttgga     1500
tcattaggct tacgtactac ttgtttcaaa tgtgtcaaat acaaaaatgg taactaggtt     1560
gacagatact ttgtattttt cttttgaatt cagacctgga atgtaagtaa gtgacaatgc     1620
ttatggaaag ccagttagtt agaattggaa atctgtcttg tcattttaca agcattagat     1680
tcctttcctg tgtgaagaaa gcctcagtga aacaggtctt tgccataact ttatgaagtg     1740
ctacagaaag cacaaagaat tgattcatgt tcatcaatac ctgctgagag tactgtccca     1800
ggaatatcca gtggatggat tcatcatcca gggaggttca aaagtaagat ggttttcaaa     1860
tcattttga gactggttgc ataacac                                         1887
```

<210> 6622
<211> 821
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (606)...(522)
<223> similar to gi4008584 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6622
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cagaggtctt ccaaaggcta ttcagaagca gaaattgaat actggcagct cactgacagt       60
attttgaaaa tgttttacaa ttaagtctcc taaatttaac aaagagattt cacactaaaa      120
cctagatttc tagcatggct tgggaaattg taagatttgg gtccatgttc ccgcatagca      180
acaattggct gaagctgagt ggatgcaact tctgcaagac ggcatgtgtt ctcctgtgtg      240
ctttctctag tttgctccaa tccccacatc cccttgtctt ctataccagt tcgtcttggt      300
cttgaaggtg tctagtttgc tggcatggcc taaagctttc attagtggca ggggactgg       360
gttctgggag gggtgccatg cccgaggagg gtggcagtga gcccaaaagg gaagagcatt      420
```

5279

```
cataacttgg tgagtgacga tgatgctgag tgcctggcct gagaggagca gctggctcaa    480
gggaagacgt gctgagcaca gtcagcccgg gtacgttctt ggtatgggtg gagcaggtgg    540
atctgcctgt cctgtgggcg gtggaaattc cagtctggaa cttgtcgggg agatgggtct    600
ggagaataga gatttgcttc caaggaggta ataggcccat ggcatccagg gagagggccc    660
tggatgacag ggatgctgag gggctgaggg gttcaaaata tggagatgac aggcaaggaa    720
ggaagggaag gaggatgagg gcagagcaca ggagtaaagc tatggggggcc aagggaagca    780
agaccttgag gggccagtgg ttaactggta gaatcagttc a                        821
```

```
        <400> 6623
gtcggattcg ctcgaggatc acctccagga gcactgatgc cccttcacaa agcactggag     60
atcgaaagac tgggagtgtt ggatcttggg gtgcagctag ggggccttct ggaactgaca    120
cagtctctgg acaaagcaat tctggaaaca atgggaacaa tggaaaagag agagaggact    180
cctggaaagg agcttctgtt cagaaatcaa ctgggtcaaa aaatgactct tgggacaaca    240
ataacaggtc tacgggtggg tcctggaact ttggcccoca ggactctaat gacaacaaat    300
ggggtgaagg gaacaaaatg acatctgggg tctctcaggg agaatggaaa cagccgactg    360
ggtctgatga gttgaaaatt ggagaatgga gtggtccaaa ccaaccaaat tctagcactg    420
gagcatggga caatcaaaag ggccaccccc tccttgaaaa ccaaggcaat gcccaggctc    480
cctgttgggg aagatcttcc agctccacag gaagtgaagt tgaaggtcaa agcactggaa    540
gcaaccacaa agcaggaagt agtgacagtc ataactctgg ccgtcggtcg tacaggccca    600
cacatcctga ttgtcaggct gtcttgcaga ctcttttgag ccgaactgat ttggaccoca    660
gggtgctctc aaacactggc tggggccaaa ctcaaattaa gcaggacaca gtgtgggaca    720
ttgaagaggt gccaaggcct gaggggaaat ctgacaaagg aactgagggg tgggagagcg    780
ctgccacaca gaccaagaac tcagggggct ggggagatgc acccagccaa agcaatcaaa    840
tgaagtctgg atggggggag ctctcagcct ctacagagtg gaaagacccc aagaacacag    900
gaggctggaa tgactacaag aacaacaact cttccaactg gggaggagga cgacctgatg    960
aaaagacacc ttcctcttgg aatgagaatc ccagcaagga tcaggggtgg ggaggtggac   1020
gccagcccaa tcaaggatgg tcttctggaa agaatggttg gggggaggaa gtcgatcaga   1080
caaaaaacag caattgggaa agttctgcaa gtaaacctgt gtctgggtgg ggtgaaggag   1140
ggcagaatga aatcgggact tggggtaatg gtggcaatgc aagcctagct tcaaaaggtg   1200
ggtgggagga ttgcaaaaga tccccagcat ggaatgagac gggccgacag cccaattcct   1260
ggaataaaca acaccaacag cagcagcccc cacagcagcc gccgccacca caaccagagg   1320
cttctggttc gtggggaggc ccaccccac cacctccagg caacgttcga ccttccaatt   1380
ccagctggag cagcgggcca cagcctgcaa cacctaagga tgaggaaccc agtggttggg   1440
aagagccatc cccacagtca attagtcgga aaatggacat tgatgatggc acttcagcat   1500
ggggagaccc taacagttat aactacaaga atgtgaatct gtgggataag aattcccaag   1560
ggggcccagc acctcgagaa ccaaacctgc ccaccccaat gaccagtaaa tcggcatcag   1620
attccaaatc tatgcaagac ggctgggggg agagtgacgg gccagtcaca ggagctcgcc   1680
atcccagctg ggaagaggag gaggatggag gagtctggaa caccactggc tctcagggca   1740
gtgcttcctc ccacaactca gcaagctggg gacaaggagg aaagaaacaa atgaagtgct   1800
```

```
cactcaaagg aggaaacaat gattcatgga tgaatcctct tgccaaacag ttttcaaata   1860
tgggattgct gagtcagact gaagataatc caagcagcaa aatggatttg tctgtaggaa   1920
gcctttcaga taaaaaattt gatgtggaca agcgagcgat gaatctcggg gattttaatg   1980
atatcatgag gaaggatcga tctgggttcc gtccacctaa ttccaaagac atgggaacca   2040
cagatagtgg gccttatttt gagaagggcg gtagtcatgg tttgtttgga aacagcacag   2100
cacaatcgag aggtctgcac acacccgtgc agccactaaa ttcttctccc agtctccggg   2160
cgcaagtgcc tccccagttt atttcccccc aggtttctgc ctcaatgctc aagcagtttc   2220
ccaacagtgg cctgagtcca ggtctttttca atgtggggcc ccagttatct cctcaacaaa   2280
ttgccatgct gagccagctt ccacaaattc cccagtttca gttggcatgt cagcttctct   2340
tgcagcagca gcaacagcag cagttgttac agaaccagag aaagatttct caagctgtac   2400
gccaacagca agagcagcag ctggctcgaa tggtgagtgc actgcagcag cagcagcagc   2460
agcagcagag gcagccaggc atgaagcact cgccctctca tcctgtttggg cccaagccgc   2520
atctggacaa catggtaccc aacgcattga atgtggggct cccagacctt caaaccaaag   2580
ggccaatacc tggatatggt tctggtttca gctctggcgg catggactat ggcatggttg   2640
gtgggaagga ggctggaacc gagtctcgct ttaaacagtg gacctccatg atggaggggc   2700
tgccctctgt agccacacag gaagccaata tgcacaaaaa tggcgctata gtggcccctg   2760
gtaaaacccg gggagggtca ccgtacaacc agtttgatat catccctggt gacacactgg   2820
gtggccatac gggtcctgct ggtgatagct ggttacctgc caaatctcca ccaacaaata   2880
aaatcggaag taaatccagc aatgccagtt ggcctccaga attccaacca ggagtgccat   2940
ggaaaggtat ccaaaacatt gaccctgaat ctgaccccta tgtcacccca ggaagtgtgc   3000
tgggggggtac agccacatct cccattgtag atactgacca ccaactgctg cgggataaca   3060
ccacagggtc taattcttcc ctcaacacct cgctgccttc acctggtgcc tggccctaca   3120
gtgcctctga caactccttt accaacgttc atagcacttc agcaaagttc cctgattaca   3180
aatcaacatg gtccccagat cccataggac acaaccccac tcatctctcc aacaagatgt   3240
ggaaaaacca tatttcctcc aggaacacta caccgctgcc ccgcccacct cctggtctga   3300
ccaaccccaa accatcatct ccctggagca gcacagcacc ccgatcagtc aggggggtggg   3360
ggacacagga ctcacggctc gcctcggcct ctacctggag tgatggtggc tcagttcgtc   3420
ctagttactg gctggttctt cacaatctca ccccacagat tgatgggtca accttgagaa   3480
cgatctgcat gcagcatggg cccactggct gacattccat ctggaatcta acccagggca   3540
ctgccctgat ccgatacagc accaaacagg aggcggccaa ggcccaaact gcactgcaca   3600
tgtgtgtgtt gggaaacact accatccttg ctgagtttgc cactgatgat gaagtcagcc   3660
gctttctggc acaagctcag cccccctacac ctgcagcaac cccaagtgcg ccagctgcgg   3720
ggtggcagtc gctggagacc ggccagaacc agtcagatcc cgtgggacct gctctgaatc   3780
tttttggtgg gtccactggg ctcggcagt ggagcagcag cgctggtggc agcagcgggg   3840
ccgatcttgc tggcgcttca ttgtggggggc ccccaaacta ttcttctagc ttatggggag   3900
tcccaacggt ggaagatccc cataggatgg gcagccctgc tcctttacta cctggtgacc   3960
ttctgggagg agggtcggat tcaatctgaa cttagaactt tcaactctga cctcgtgacc   4020
tttttttggaa cagcagcagc actaacttga ccttttcgtt tttttttttca acttgcaata   4080
aatacatttt taaaaggaaa aaagaaaacg gagagaaaaa aaggggggtc attgacagac   4140
tgtctgagca catagttgcc tcccttataa cttcagtttt ttcgtttgga atatgaatcc   4200
aaaaagagaa catatcactc ttgaaatact tgaatcatga acgccaccct tggaaaggcc   4260
aatgtgaagc aagtacacat acccatttaa atttaaacac aaaaaaatta aaaaaaatta   4320
gtttctagtt tttcacttttt ttcatgttat atggaagttg ttgctaagaa acatatatac   4380
tgaaaaaaaa tagctttttta actttgtttg cactggggtg tgtttccgtc cttaggtcta   4440
ccatgtttgg gaggggaggga aattcaaaag aattgttggg ggaggggggga gggaagactt   4500
gacggagcct cactttaaaa acaaaaacac aaaaaaccta a                        4541
```

<221> misc_feature
<222> (384)...(1767)
<223> similar to gi5931610 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6624
```
tttttgcacc tagaaatttt aggcaagtga tagctgcgta atcatactgc ggcaccgttt    60
ttttcttgca gcagtagctg cttgcggagg aggtctgccc actgcagctc tctgcagtct   120
ccggctctct cctgcaggat cggtcaacgc agccgtcgcc gccctctgca cccagcccag   180
gtcgccactg cttcagtccg gttctcaaag cctcagcacc atcttttatc cccgagcagc   240
ctggatcgtc gttccctcag tccggacgcc actgctaggt ccgaccaccg ccgcttctga   300
tatttcggtg agtcttttcc tgtggaggtt tggtctcccg atctctgtgg tagccacctt   360
aggcgtgtac ggtcctttga aaaatggccg agtcagagaa ccgcccaaga gctgtcagaa   420
tcccagtcaa gaagaggctg gtaatcagat aatggtggaa gggctcgggg aacatctgga   480
gcgcggtgaa gatgccgctg ctgggcttgg agacgatggg aagtgcggtg aagaagctgc   540
cgctgggctt ggggaagaag gggaaaacgg tgaagatact gctgctgggt ccggggaaga   600
tgggaaaaaa ggtggcgata ctgatgagga ctcagaggca gaccgtccaa aaggacttat   660
cggttatgtt ttagatacag actttgttga aagtctacct gtgaaagtta agtaccgtgt   720
gttagcccctt aaaaagcttc aaactagagc ggccaattta gaatccaaat tcctgaggga   780
atttcatgac attgaaagaa agtttgctga aatgtaccaa cccttactgg aaaaaagacg   840
tcagatcatc aatgcaatct atgaacctac agaagaggaa tgtgaatata aatcagactc   900
tgaggactgt gatgatgagg aaatgtgtca tgaagagatg tatggtaatg aggagggtat   960
ggtacatgaa tatgtggatg aggacgatgg ttatgaggac tattattatg attatgctgt  1020
ggaagaggag gaggaggagg aggaggagga cgacattgag gctactggag aagagaataa  1080
agaagaggag gatcctaagg gaattcctga tttttggcta actgtttttaa aaaacgttga  1140
tacactcact cctttgatta aaaaatatga tgagcctatt ctgaagctcc tgacagatat  1200
taaagttaag ctttcagatc ctggcgagcc cctcagtttc acactagaat ttcacttcaa  1260
acccaatgaa tatttcaaaa atgagttgtt gacaaagacc tatgtgctga agtcaaagct  1320
agcatattat gatccccatc cctatagggg aactgcgatt gagtattcca caggctgtga  1380
gatagattgg aatgaaggaa agaatgtcac tttgaaaacc atcaagaaca aacagaaaca  1440
tcggatctgg ggaacaatcc gaactgtaac tgaagatttt cccaaggatt cattttttcaa  1500
ttttttctct cctcatggaa tcacctcaaa tggaagggat ggaaatgatg attttttact  1560
tggtcacaat ttacgtactt acataattcc aagatcagta ttattttttct caggtgatgc  1620
actggaatct cagcaggagg gggtagttag agaagttaat gatgcaattt atgacaaaat  1680
tatttatgat aattggatgg ctgcaattga ggaagttaaa gcttgttgca aaaaccttga  1740
ggcattagta gaagacattg atcgttagag cagagtatac atggccctga aattaactgc  1800
cctagatata gttactcaag gtataagaag ccttgtgttc tgtattttc ttgtagtgtt  1860
agttaaaaca tatgtttcaa aaatataaga aagttcaaa aactaattaa tttgaccttg  1920
agttttagta gtagaatgtt ttcaagaaat gtacactgtg gtaaatgatt taaaacacta  1980
gtatagtgtt gtgtagctta atccttctga agtctttttg tcatgtagct attaatctgt  2040
ggctatgaaa tgatcagaaa tgctaagtga gatcaatatt tgtttggaaa aaaaatcttg  2100
ggaaacaacc caagggtttt cgctgttgtt gtttttcttt ttctattttt gtttacttag  2160
tcctttagct agtggattta attttgttgt gcctgcttca ttttgcaata acaatgcagt  2220
agaatttaaa acttggatgc ttaagaggcc tgcatataga taagaatttc aggcaaaact  2280
acatttattg ttaataacag cttgttcata ggctcttgta ttttatgtaa ctgtgataaa  2340
taatgaaact tagttatatt gaggttattg tttgtcggtg aagtgttagt cacagtattt  2400
tcaaaagttt gcacatattg ttctgtgtaa ttgtgtaagc cataattaca gtgtttaatt  2460
ctcttttcct attacatcat tcattgaaag tgatcacttt accatttttga aaagatattt  2520
cgtgttcttt cactgcaaaa taaaaagaat aaaaatttca aaaaaaaaa                2569
```

5282

<210> 6625
<211> 1569
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (489)...(1045)
<223> similar to gi1770468 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6625
```
ggcacgaggg aggcttcacc ctcatgacct catccaaccc taattacctc gtaaagaccc      60
cacctccaca caccatcaca ttgaagatta gggcttcaac atgtatgttt ggtgtggggg     120
cggggggcaa gatacagaca tttagtccat agcactgtat gtcttaaaat tattgtttaa     180
ggcaccgttc acctctggaa aaggattctt cacctggaag ttcatcaaca agcttgttga     240
taaaaaagca aagagagact tcagacacgc cgatcatgag agctttaaaa gaacttgatg     300
agggaaaaat atttaaaaat tgggggacac agacagagaa agaggacacc tcaaatataa     360
atcctcggca aactgaaact tcagttaatg caagtcgttc tccagaaaag tgtgcccaac     420
agagacaaaa gagacttaat tcggcctcac agagatcatc atctttacca ccttcaaatc     480
gtaaatcaag tactccaaca aaaagagaga ttatgctaac accagtgact gtggcttata     540
gtccaaagcg atcccctaaa gaaaacttgt ccccaggatt tagtcatctg cttagcaaaa     600
atgagagcag tccaattcga tttgatatac ttttggatga tttagatact gttcctgtgt     660
ctacattaca acgtaccaat ccaagaaagc aacttccagt ttcttcctct agatgactcg     720
gaagaaaaaa acttattctg agaaagccac ccgataacat tgttaatcat agctcttgcc     780
ctgaaccggt gccaaatgga gtgaagaaag tatctgtgag aacagcctgg gagaagaata     840
aatcagttag ctacgaacag tgtaagccgg tttcagtcac tccacagggg aatgattttg     900
aatatacagc aaaaattcgg accctagctg aaacagaacg attttttttga tgaacttaca     960
aaagaaaagg accagattga ggcagcacta agcaggatgc cttctcctgg aggacggatc    1020
actttacaga caaggttaaa tcaggaagcc tttggaagat cgtttggaaa ggattaatcg    1080
agaactgggg ttcagttcgc atgacgctaa agaaattcca tgtttttgcgc acctctgcaa    1140
atcttcgaga ttcgtagcca ttaaattttg agacattttt gtttgcacta atgtataatt    1200
atgcagtcag aaaaggcaaa ctattttgta ctgtttataa gccttcaaac agtagtttta    1260
caatcatgct attcttacac ttgctatttt atacttcaaa tagccacata ttttcaagat    1320
attttttgtta tgctcaggaa tctcttgtat attttactat ttaaaaagca ttatttttaa    1380
atagtatctg tctccaattt atatcaagaa taaggaaata taaacagagg aagcagcttg    1440
tttctaaaca aatagtgtta tcctttttaca attaactgca catcaatttt atagacttgt    1500
tctacattgt aaatacaatt cagtttttaa aaaataaagc ttactagctt cacataaatg    1560
aaaaaaaaa                                                            1569
```


<210> 6626
<211> 987
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (62)...(714)
<223> similar to gi1943772 in the genepept database release 114,
Run with FASTXY 3.3t00, default parameters

<400> 6626
```
tttcgtggag gtaagtggct atagaagtcg ggcggacccg gaacccagag gacgcgacac    60
catgacttat gcttatctct tcaagtatat catcatcgga gacacaggtg tggggaagtc   120
atgtctcctc ctgcagttta cagataagcg gttccagcct gtccacgacc tcacaatagg   180
tgtggagttt ggagctcgta tggtcaacat tgatggaaaa caaatcaaac tgcaaatctg   240
ggatacggct gggcaagaat ccttccgttc.tatcacccgt tcctactaca ggggagcagc   300
tggagcactg ctggtgtacg acattacaag gcgtgaaacc ttcaaccacc tgacctcatg   360
gttagaggat gcccggcagc actctagttc caacatggtt atcatgctca ttgggaataa   420
gagtgaccta gagtcccgca gggatgtgaa gagagaagaa ggagaggcct ttgctaggga   480
gccatggact tatattcatg gaaacttcag ccaaaacagc ctgcaatgtt gaagaggcct   540
tcattaacac agccaaagaa atatatagga agatccagca gggtttattt gatgtccaca   600
atgaggcaaa tggcatcaag attgggcccc aacagtcaat ttcaacatca gtgggaccca   660
gtgcctccca gcggaactct cgtgacatag ggtccaactc tggctgctgc tgaacatctg   720
gcttgaactt ttttgtcct tcctggaata gcttcagatc aataggctta atgaaagagg   780
tctttcttgc tttggctgag agcagcctct ttttaaagtg tgatgttttg cctttccacc   840
taaagaccag gagagaattt gggcccttac tgacctgtcc tccttcaggg acatgagcat   900
tccctataga ttagggttct tcttatcctc ctatacaaat ttcttaaatt gttaggatca   960
aagttgatta tcacagtagt taaaaaa                                        987
```

<210> 6627
<211> 1493
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (84)...(1374)
<223> similar to gi2564320 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6627
```
tttcgtggca cgtgaggagg aggtggcttg aggcaaccat ggcgggagga atgaaagtgg    60
cggtctcgcc ggcagttggt cccgggccct ggggctcggg agtcgggggc ggtgggacag   120
tgcggctact cttgatcctc tccggctgct tggtctacgg cacagctgaa actgatgtaa   180
atgtggtcat gcttcaggaa tcccaagttt gtgaaaagcg tgccagccaa caattctgtt   240
acacaaatgt gcttatccca caatggcatg atatatggac acggatacag atccgagtaa   300
atagttccag attggttcga gtcacccagg tggagaatga ggagaaactg aaggagctag   360
agcagtttag tatctggaac ttttttttcct cctttttaaa agagaaattg aatgacacct   420
atgttaacgt gggtctatac agcacaaaaa cctgcctcaa agttgagatt atagagaagg   480
acaccaagta cagtgtcatt gtgatccgga gatttgatcc caaactcttt cttgttttcc   540
ttcttggact tatgctattt ttttgtggag acttgctgag cagaagtcaa attttctact   600
actctactgg gatgactgtg ggaattgtgg cctctctggc taatcatcat ttttatacta   660
tctaagttta tgcctaagaa aagtcccatt tacgtcatcc tggtgggagg ctggtctttt   720
tctctgtacc tcattcaact agtttttaaa aatttacaag agatctggag gtgttactgg   780
cagtatcttt taagttatgt cctcacagtt ggattcatga gttttgcagt atgttacaag   840
tatgggcct tggagaatga acgaagtatc aacctgctga cctggacctt gcagctgatg   900
```

```
ggcctgtgtt tcatgtattc tggcatccag ataccacata ttgcccttgc cattatcatc    960
attgctcttt gtactaagaa cctggaacac cctattcagt ggctgtacat cacctgcaga   1020
aaggtgtgta agggagcaga aaagcctgtt cccccctcgtc tcctgacaga agaagaatat   1080
cggatacaag gagaggtaga aacccgaaag gctttagagg agctccgaga attttgtaac   1140
agtccagact gctctgcttg gaagactgtt tctcgaatcc agtctccaaa aagatttgct   1200
gactttgtgg aaggctcttc ccacctcacg ccaaatgaag tttctgtcca tgagcaggag   1260
tatggattag ggagcattat tgcccaggat gaaatctatg aggaagcatc ctctgaggag   1320
gaggactcat attctcggtg tcctgctatc acacagaaca actttctaac ctaggtagtg   1380
gtcagttatc tttacgtgga ctggcttggt gccttggtcc atgttgcatg tgttgtgcaa   1440
ttgctttcaa ccctttgaaa cagagtgaga tagacagggt attgaagctc atg          1493
```

<210> 6628
<211> 2360
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (244)...(1463)
<223> similar to gi4929563 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6628
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ggcgtccccg ccacgtttcc ggcgaccgca ggcgcggatt ccttggcttc cctcagcact     60
ttcccctccg cgcggacggc cccgagacgc tttttcactg ggccttgtcg ccagcacccg    120
gcgtggggga tgtgtagttg gtgactgcct ctccagatgc tgaggtgcct gtatcattgg    180
cacaggccag tgctgaaccg taggtggagt aggctgtgcc ttctgaagca gtatctattc    240
acaatgaagt tgcagtctcc cgaattccag tcactttttca cagaaggact gaagagtctg    300
acagaattat ttgtcaaaga gaatcacgaa ttaagaatag caggaggagc agtgagggat    360
ttattaaatg gagtaaagcc tcaggatata gattttgcca ccactgctac ccctactcaa    420
atgaaggaga tgtttcagtc ggctgggatt cggatgataa acaacagagg agaaaagcac    480
ggaacaatta ctgccaggct tcatgaagaa aattttgaga ttactacact acggattgat    540
gtcaccactg atggaagaca tgctgaggta gaattacaa ctgactggca gaaagatgcg     600
gaacgcagag gatctcacta taaattctat gtttttaggt tttgatggca ctttatttga    660
ctactttaat gggttatgaa gatttaaaaa ataagaaagt tagatttgtt ggacatgcta    720
aacagagaat acaagaggat tatcttagaa ttttaagata cttcaggttt tatgggagaa    780
ttgtagacaa acctggtgac catgatcctg agactttgga agcaattgca gaaaatgcaa    840
aaggcttggc tggaatatca ggagaaagga tttgggtgga actgaaaaaa attcttgttg    900
gtaaccatgt aaatcatttg attcacctta tctatgatct tgatgtggct ccttatatag    960
gtttacctgc taatgcaagt ttagaagaat ttgacaaagt cagtaaaaat gttgatggtt   1020
tttcaccaaa gccagtgact cttttggcct cattattcaa agtacaagat gatgtcacaa   1080
aattggattt gaggttgaag atcgcgaaag aggagaaaaa ccttggctta tttatagtta   1140
aaaataggaa agatttaatt aaagcaacag atagttcaga cccattgaaa ccctatcaag   1200
acttcattat agattctagg gaacctgatg caactactcg tgtatgtgaa ctactgaagt   1260
accaaggaga gcactgtctc ctaaaggaaa tgcagcagtg gtccattcct ccatttcctg   1320
taagtggcca tgacatcaga aaagtgggca tttcttcagg aaaagaaatt ggggctctat   1380
tacaacagtt gcgagaacag tggaaaaaaa gtggttacca aatggaaaaa gatgaacttc   1440
tgagttacat aaagaagacc taaaactgat ggctactaaa aagcagagca tttctggtaa   1500
gactaaattt tctcccctcc ctcttaatga ggtttttagag actacaccag aataaaagac   1560
agtttagggg acctctgtag aacaacaagg gtcttatttt gtgaattata tatttcaaga   1620
```

5285

```
actaaacaga gatccacctt tctggatctg atttatatca ctgaaatgta cagttctttt      1680
ggaatagttt cacctgagaa aacatagttg gctattatct atcttaacct gttcaggctt      1740
ttaaaaaaaa ctgttttttgc atagggtagt actaagatct taaaaagtgg taactgtctt      1800
gaagaaaaaa cgtttattgt ttgtttgcaa ttgaaataac agggttacct taacaatgac      1860
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taattgacca agtaagtttg cataaaatgt gaatactaaa tgtgtcccca gttgctggca      1980
ttcatatgta caggatttgt tctagcaagc tatgcttcag tatgtggttg atatttttct      .2040
gtcacaatga tttctttatg catgcagagc ctgggaaagt catgggatta acttgagggt      2100
cactattgag cctattaatt aattaattat tgttttaata aaacaaacat tggtattgga      2160
agataaatat gtttatgtgg tatctgacaa tgtgtattag gtgtcatata caatggtaat      2220
atgcctgtct ttaaagtgtt attttattaa ttaaaaggat atcggctatt attatatatt      2280
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aaatgtataa tacaaaaaaa                                                 2360
```

<210> 6629
<211> 4211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (433)...(2515)
<223> similar to gi4836765 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6629
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tttcgtggag gcgacagatg gaggctgagg aagcagagtg atccccggcc ccttcctgtc        60
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gggagcctcc cacgctctcc agctcactcg gcaggcagcg gggaccaggg ctggcaggtt       180
aagcctctgg gggtggatcc tgaaaggtgg tccagccgcc tggccctgcg tgggaccctc       240
cacctggcag caggtaccca aacaagggct ggacagcagg gtctcgctct gtcacacagg       300
ctggagtgca gtggtgtgat cttggctcat cgtaacctcc acctcccggg ttcaagtgat       360
tctcatgcct cagcctcccg agtagctggg attacaggtg gtgacttcca agagtgactc       420
cgtcggagga aaatgactcc ccagtcgctg ctgcagacga cactgttcct gctgagtctg       480
ctcttcctgg tccaaggtgc ccacggcagg ggccacaggg aagactttcg cttctgcagc       540
cagcggaacc agacacacag gagcagcctc cactacaaac ccacaccaga cctgcgcatc       600
tccatcgaga actccgaaga ggccctcaca gtccatgccc ctttccctgc agcccaccct       660
gcttcccgat ccttccctga ccccaggggc ctctaccact tctgcctcta ctggaaccga       720
catgctggga gattacatct tctctatggc aagcgtgact tcttgctgag tgacaaagcc       780
tctagcctcc tctgcttcca gcaccaggag gagagcctgg ctcagggccc cccgctgtta       840
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tgcgagctca aaagggacct ccagctgctc agccagttcc tgaagcatcc ccagaaggcc      1020
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acctctgtga gattcatggg ggacatgggg tccttcgagg aggaccggat caacgccacg      1140
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gaggagcaga gcgagatcat ggagtactcg gtgctgctgc ctcgaacact cttccagagg      1260
acgaaaggcc ggaggggga ggctgagaag agactcctcc tggtggactt cagcagccaa      1320
gccctgttcc aggacaagaa ttccagccac gtcctgggtg agaaggtctt ggggattgtg      1380
gtacagaaca ccaaagtagc caacctcacg gagccgtgg tgctcacctt ccagcaccag      1440
```

```
ctacagccga agaatgtgac tctgcaatgt gtgttctggg ttgaagaccc cacattgagc    1500
agcccggggc attggagcag tgctgggtgt gagaccgtca ggagagaaac ccaaacatcc    1560
tgcttctgca accacttgac ctactttgca gtgctgatgg tctcctcggt ggaggtggac    1620
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ggggactact cggctctcac tcagctccca cgggactcag aagtgcgccg ccatgctgcc     2760
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ggggcccagg gcagaccttc agggccagag ccctggcgga ggagaggccc tttgccagga     3060
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gaaactgtag aagagaatca agaagaaaaa taaaaatcag ctgttgtaat cacctagcaa     3960
aaaaaaaaaa agggggggcc cttttaaaag aacccttggg gggcccaatt ttaacggggg     4020
agggcaagga aaaatttttt tctttatggg gggcggaata aaaaccactt tgggaatttt     4080
ggaaaggaac cttttttttg ggggggggcc atatgggccc acccccccca cggattttaa     4140
gggctttagg gaaaaaaaaa attttttaagg ggaaaagggg ggaaaacaac cccaaaagcc    4200
ttgctgttga a                                                          4211
```

```
<220>
<221> misc_feature
<222> (1)...(2214)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (142)...(1400)
<223> similar to gi416017 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters




    <400> 6630
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ctggcattcc gcggaaagat ggtattccca cttccctgtg cggtgcagca gtatgcctgg     180
gggaagatgg gttccaacag cgaagtggcg cggctgttgg ccagcagtga tccactggcc     240
cagatcgcag aggacaagcc ttatgcagag ttgtggatgg ggactcaccc ccgaggggat     300
gccaagatcc ttgacaaccg catctcacag aagaccctaa gccagtggat tgctgagaac     360
caggacagct tgggctcaaa ggtcaaggac acctttaatg gcaacctgcc cttcctcttc     420
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gccattgccc tcaccccctt ccagggcttg tgtggcttcc ggccagttga ggagattgta     600
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ctacagctgc accagcagta cccaggtgat atcggctgct ttgccatcta cttcctgaac     900
ctgcttaccc tgaagcctgg ggaggccatg tttctggagg ccaacgtacc ccatgcctac     960
ctgaaaggag actgcgtgga gtgcatggcg tgttcagaca acacagttcg tgctggcctg    1020
acacccaagt tcattgatgt gccaaccctg tgtgaaatgc tcagctatac ccctagctcc    1080
agcaaggaca ggctctttct cccaacacgg agtcaggaag acccctacct ctcaatctat    1140
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aatacaagga cttggcactg gactctgcca gcatcctcct gatggtacag gggacagtga    1260
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gtgcctgctg tctgctgtaa aggctgcagc ctccccagct ctcctctgcc agccacccta    1440
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cttaggtata ccctggaaga gctggggtgg gggaggaggg agcgtgaagg tagtgactcc    1560
tgaacacacc caggtggaac catctttggg gaggagaggc ccgtgtgagg ggtctgatac    1620
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tccagcctat ggctttaggc tagctgttaa atatgtgacc cagcattagc tcagcatctg    1740
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cctcagctgc agaggaggaa agggaaaggg taggcctgta gactaacgct gtttacaccc    1860
ttgttctgtc aaagcaatta aagatcactt gtgttgaggc tgtggggtaa tgagcactca    1920
gcctttgggg tacctgttcc taaagtgggc caaaagagcc ctccctacat gatgccccag    1980
tttttgcttt attcctattt catacagctt ctcggggggg tgagcaggct acactccaga    2040
acaccggtat gggaaggagt gggagaggaa gccagctttg gcctcacagg cacagcttgc    2100
aagcaggcct tgggtctgcc cagaggcaca gcttgcaagc agccctacag agaaggtgac    2160
tcaaaggata caccagtcac cagtgcaaga ctcttcgctc ctgttttct ctt           2213
```

```
<210> 6631
<211> 2904
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(2905)
<223> n = a,t,c or g

<220>
<221> misc_feature
<222> (553)...(2344)
<223> similar to gi4741187 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters




<400> 6631
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tggccttagc agactccaca ggccacgctg gctgcgaatg gagccgagga ctcgcgcgga     120
ggcgagatgc taccagccgg cgagatcggc gcctctcctg cagccccgtg ctgctctgaa     180
agtggtgacg aaaggaagaa cctcgaggag aaaagtgaca taaatgttac agttcttatt     240
ggaagtaaac aagtcagtga aggtacagat aatggtgatc tcccttctta tgtgtctgca     300
ttcatagaaa aggaagttgg aaatgacctt aaatctttaa agaaacttga taaactcata     360
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caagtactta tgtggattgg aaaccatact gaatttctgg atgagaagat tcagccaata    1200
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cctggcactt ttgctagttg tatgcatatt ctatcagagg aaacctgttt tcagagatgg    1440
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gcctgggtat cgcaatataa ggatatcact gacgtggatg aaatgaaagt tccagattgt    1560
gcagaaactt ttatgactct actcttggtt ataactgaca ggtataaaaa tcttcccaca    1620
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cgattaacac aagtgatgaa agaagagact agagcttccc ttggctttcg atactgtgca    1740
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ttacttcagt tggagcagca gctttgtttc tccttatttt aaatttttctg gcaaatgctt    2160
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5289

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ggaggagcag cccagctgca gtttgatatg actcggaatc ttttcccttt gttttctcac      2280
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ttgaacgtcg gttctgcact tactgctgga aaggatgtac tgccagtcca gcttcagggc      2400
agcttccctg ccaccngccg gccattaaat gaagttggaa ttttaccaaa ctggcctcca      2460
accaggatgt tgagattcta cttaatttga ggaccaaatt ggcctaatac tggaaaataa      2520
tgtctttcag aaaaaggttt ctttggtttt tgtttctaag aaagaggaag ccaattggat      2580
ttcaagttat atgatgaaat tctgaattaa tgaaactgga aaaactttat agaattactt      2640
attatcttgg atttatggtg ttattaaaat gctgaccata tttccttcat cctcttgttc      2700
ctaaggaaac aaaaacagaa aacgaaacga atgaaaactc gaattctatt tacaagtata      2760
aatgctgagt attgtctgtt gaagacaaga gcagagactc ttacaattct aaccaacttt      2820
caatttcctg tgctaattaa gggaaattct gttgtggata atcaaacata gccaataaat      2880
ttttttaaaa ctcccaaaaa aaaa                                            2904
```


<210> 6632
<211> 3854
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (222)...(2524)
<223> similar to gi1296664 in the genepept database release 114,
     Run with FASTXY 3.3t00, default parameters

<400> 6632
```
gagagcggcg cctcactact gactatgctg cgaaaacact acataagggg ggggcggggt        60
ggcgccaccc ctgattgcgg tgccacggac tgctcctgct gggcggagag gacagatttt       120
gcaaagcgga ggctgcgacg ggtcctgcag ggggacagtg aggaaagggc cgcctcgtct       180
ccgctcctgg gggaccgcag aaataagaat caaactccac aatgacaacc tatttggaat       240
tcattcaaca aaatgaagaa cgagatggag tccgatttag ttggaatgtt tggccatcaa       300
gtcgactgga agctacaaga atggttgttc ctgtggcagc cctgtttaca ccactgaaag       360
agagacctga cttaccacct attcaatatg aacctgttct gtgtagtagg accacttgcc       420
gtgcagtttt gaatccttta tgtcaagtgg attatcgagc aaaactttgg gcttgcaact       480
tttgttacca aaggaatcag tttccaccta gttatgctgg tatatctgaa ctgaatcagc       540
ctgctgaact tttacctcag tttttctagca ttgaatatgt agttctgcgt ggtcctcaga       600
tgcctttgat attcctctat gtggttgata cttgcatgga agatgaagat ttacaagccc       660
tgaaagaatc catgcagatg tcattaagtc ttttaccacc tacagctttg gttggactta       720
ttacttttgg gagaatggtt caggttcatg aacttggatg tgaaggcatt tcaaaaagct       780
atgtcttcag aggaacaaaa gatttgtctg ccaaacaact gcaggaaatg ctggggctct       840
ctaaagtacc agttactcaa gcaacacgtg gtcctcaggt acagcagcca cctccttcca       900
acagattctt acaaccagta cagaaaatag acatgaatct cacagatctt ctgggagaac       960
tccagcgaga cccttggcct gtaccacagg gaaagagacc tttgcgttcc tctgggggtgg     1020
cactttccat agctgtagga ctgctggagt gtacttttcc caacactggt gctcgtatca     1080
tgatgttcat tggtggtcct gctactcagg ggcctggaat ggtggttgga gatgagttga     1140
agacacctat aagatcgtgg catgacattg acaaagacaa tgccaaatat gttaaaaagg     1200
gaactaagca ttttgaagca ttggctaatc gagctgctac aactggccat gttattgata     1260
tctatgcgtg tgcattagat cagacaggtc tcctggagat gaaatgctgt cccaacctta     1320
ctggaggata catggtaatg ggtgattctt tcaatacttc cttattcaaa caaacttttc     1380
aaagagtctt taccaaagac atgcatggac agtttaaaat gggctttggt ggtacgctag     1440
aaataaagac cccaggggga aataaagatt tcaggagcta ttggacccctg tgtgtcactc     1500
```

                                          5290

```
aattctaaag gaccctgtgt gtctgaaaat gagataggaa caggtggcac atgtcagtgg      1560
aagatatgtg gacttagtcc cactacaacc ttagccatat attttgaggt tgtcaatcag      1620
cataatgctc caattcctca aggagggccg tggtgcaaat ccagtttgtg actcagtatc      1680
gagcattcaa gtgggcagag acgcatccga gtgaccacca ttgctaggaa cttgggcaga      1740
tgctcaaact caaatccaaa acattgctgc atcttttgac caggaggcag ctgccattct      1800
tatggcccgg ctagcaatat atagagcaga aacagaagaa ggtccagatg tgcttaggtg      1860
gctggacaga cagctcattc gactgtgtca gaaatttgga gaatatcata aagatgaccc      1920
aagttccttc agattttcag aaactttctc cctttatcca cagtttatgt ttcatttaag      1980
aagatcttct ttcctgcaag tttttaacaa tagtcctgat gagagttcat attatcgtca      2040
ccattttatg cgtcaagatc tgacccagtc tctaattatg attcagccta tcctgtatgc      2100
gtattctttt agtggaccac cagagccggt tcttcttgat agcagtagca ttcttgcaga      2160
tcgtattctt ctcatggaca cattcttcca gattttgatt tatcatggtg agaccatagc      2220
acagtggcgg aagtcaggat accaggatat gcctgagtat gaaaatttcc gccaccttct      2280
gcaagcccca gtggatgatg cacaggaaat tcttcactcc agatttccaa tgccaagata      2340
cattgacact gaacatggag gcagccaggc ccgtttcctc ctttcaaaag tcaacccttc      2400
acagactcat aataatatgt atgcctgggg gcaggagtct ggagcaccta ttcttacaga      2460
tgatgttagt ttacaagtgt ttatggatca cttgaagaaa cttgctgtgt ccagtgctgc      2520
ttgaagtgct aataatgtta aagacactta agaagatgaa ataatattca aatttcattt      2580
tttccttttt ccatttatct gtggaaacca acagatattg ctctatattt tttgtattag      2640
tatggtttga gacaacatat ggaaaatgtt cacatttgta gattaagctg gaattataat      2700
gagagcaata agaacaaatt tattttgctt accacagtgt tatagctggt tctagaaatt      2760
tgaagtcttt ataacttaat tatgtttaat aaaaaataga gtctgcctcg tactacagat      2820
gtaactcatt tgtatattgc agacagaccc aaagtggcac tgaattttct tgctcacctt      2880
ttaaaaactt gttccttaat tttagccaga aagcaaaaaa acaatagtaa tgataaatgt      2940
gaacattttt gcttattcat tgaatatttt tctgtaattt tcagcactta tgtatacact      3000
ttttctgtac ttactaggtt aaggcagact tattttatg atttgtttag gaattatttg      3060
attgtataat ggtaattttc atgatgataa tgttgttgga tatttggaaa gatagtttac      3120
agatgaaagg ttttttttgcg taacaatccc gcagctgaca aaaaatgtga aatttccaca      3180
aaatatccaa cttatgtgac taaacgcagt agttttttta aaaggggaga tagaaaataa      3240
atggtttttgt tggagtgcat tttagtaagc ctttgcagta aaatgacggt tgtaactact      3300
aaaccaaatt tagttttcac agcatggttt tgttgttttc cccttgtttt tcagaggtaa      3360
attttgcatt atatccttca gtattttaac actatttttgg cagtttacac attactttt       3420
gttttttcctt ccttttttgtg aaatgtatta agttgtggtt cttattgaaa cagtattata      3480
taatgtttgc ttaattatat catgtgatgc tcagttctat tttgatttat tcattagtat      3540
tcactttttac ctttaaagtt tacttgtagc aaatatgttt acattgataa agccagatat      3600
gttttgacaa tgaaatttac atatcaagta ctgcaaataa aaggtggtgc tatgatatat      3660
gcttaggagg acagttttaa tgattgtact tgcatgaaca caatcatatg atggtaaagc      3720
agaaacttaa gaaaaaattg tttatgtgtt atattcaatt agcttaaata agttgctttg      3780
ttatatttta tttgaattga actacgctag gcctaaatgc caataaaata tacttttcac      3840
tgttaaaaaa aaaa                                                        3854
```

```
          <400> 6633
tgctcaaatg ttttctaaag tgtagaacat tatccattag tgggatataa agtaaataca      60
ttcaaatatt gattttaaag aatgtcttga ccaaattttt taaagaaaaa atatataaaa     120
taaaaagtat cagagtacat tatactcagt aaggataaaa tattatttca tgcgctggcc     180
atgctggtct tggtggtttc gccgtggtct gcggcccggg gagtgcttcg aaactactgg     240
gagcgactgc tacggaagct tccgcagagc cggccgggct ttcccagtcc tccgtgggga     300
ccagcattag cagtacaggg cccagccatg tttacagagc cagcaaatga taccagtgga     360
agtaaagaga attccagcct tttggacagt atcttttgga tggcagctcc caaaaataga     420
cgcaccattg aagttaaccg gtgtaggaga agaaatccgc agaagcttat taaagttaag     480
aacaacatag acgtttgtcc tgaatgtggt cacctgaaac agaaacatgt cctttgtgcc     540
tactgctatg aaaaggtgtg caaggagact gcagaaatca gacgacagat agggaagcaa     600
gaaggggggcc cttttaaggc tcccaccata gagactgtgg tgctgtacac gggagagaca     660
ccgtctgaac aagatcaggg caagaggatc attgaacgag acagaaagcg accatcctgg     720
ttcacccaga attgacaccc aaagatgtta aaaggataac ttcacagtaa atcatttctc     780
ctgaaataga ggaagattct ttacgttgtt gtgcttgttt ttaaatcatc agtatagttt     840
aacacattct ttctaagcag ttttgtgtgg gataatttga agaatatatt atgagtaaac     900
tccgaaaatt ttgtttatcc aaaggcttca atggattatg tttctattat atacaaggtt     960
ttaagtaaac ataaaatttc cagaacaaaa ataaaaaatt taaaattcat aacaaaaaaa    1020
aaa                                                                  1023
```

```
          <210> 6634
          <211> 1157
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (99)...(939)
          <223> similar to gi3559980 in the genepept database release 114,
              Run with FASTXY 3.3t00, default parameters
```

```
          <400> 6634
ctccacttca tggagcctgc acctcgctcg tgctccaacg cttctgccac cgccgaccac      60
ggccctgcgc cccagccagg cctgaggaca tgaggcggcc ggcggcggtg ccgctcctgc     120
tgctgctgtg ttttgggtct cagagggcca aggcagcaac agcctgtggt cgccccagga     180
tgctgaaccg aatggtgggc gggcaggaca cgcaggaggg cgagtggccc tggcaagtca     240
gcatccagcg caacggaagc cacttctgcg ggggcagcct catcgcggag cagtgggtcc     300
tgacggctgc gcactgcttc cgcaacacct ctgagacgtc cctgtaccag gtcctgctgg     360
gggcaaggca gctagtgcag ccgggaccac acgctatgta tgcccgggtg aggcaggtgg     420
agagcaaccc cctgtaccag ggcacggcct ccagcgctga cgtggccctg gtggagctgg     480
aggcaccagt gcccttcacc aattacatcc tccccgtgtg cctgcctgac ccctcggtga     540
tctttgagac gggcatgaac tgctgggtca ctggctgggg cagccccagt gaggaagacc     600
tcctgcccga accgcggatc ctgcagaaac tcgctgtgcc catcatcgac acactcaagg     660
tgcaacctgc tctacagcaa agacaccgag tttggctacc aacccaaaac catcaagaat     720
gacatgctgt gcgccggctt cgaggagggc aagaaggatg cctgcaaggg cgactcggcc     780
ggcccctgg tgtgcctcgt gggtcagtcg tggctgcagg cggggggtgat cagctggggt     840
gagggctgtg cccgccagaa ccgcccaggt gtctacatcc gtgtcaccgc ccaccacaac     900
tggatccatc ggatcatccc caaactgcaa gtccaaccca gcgaggttgg gcggccagaa     960
```

```
gtgacacccc cggggccagg agcccctttga gcagagctct gcacccagcc tggccgccca    1020
caccatcctg ctggtcctcc cagcgctgct gttgcacctg tgagccccac cagactcatt    1080
tgtaaatagc gctccttcct cccctctcaa ataccctat tttattttatg tttctcccaa    1140
taaaaaccca gcctgtg                                                    1157
```

        <210> 6635
        <211> 4242
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (3683)...(2192)
        <223> similar to gi5102630 in the genepept database release 114,
           Run with FASTXY 3.3t00, default parameters

        <400> 6635
```
tttttttttt ttttacaaat attaaaaatg tgatttttaa taatataagt acaaaatttt     60
atttctttat acaactgtaa tgggatttgg atcaaaccac tagaatttat ttaaaaaaac    120
aaaataaaac aatgatataa aaactgcaag aaggtctgaa tccaaagttt ttcctctaat    180
agtaccaaat accacaaggg tccagattat tatacaaatg tgtacaaatt ttaaatacaa    240
atacaatagg gctgggtttc aaaggaaaac aaacaaaaag caggtccctc catccaggat    300
ttcattaatg gtatatgatt ggacaatgct aggggtttaa tgtcttccta tactaaccat    360
gtcttccccg cccctcctag atacctgtg tcaaacaggg aaacttccca cagatacaga    420
agaggcatgg tacaatgttc taacacatga aatcaagtta agatttctgt tcctcttgat    480
tttggttctc aaacaatcct gtttctctgt attcccaatt aaatcttaaa actgctctga    540
gctgagaaag ggattcagca gccagactac ctttaagcaa catagccctg tgacaacact    600
ggtggggaga agggaagaaa ttaaatagga tgcagatggg ctacactgtc cccaaagatt    660
tactttgatg ctgtagtgct ctgtcagggc caggagaaga aagcacagtt aactcagagc    720
ttggtgttgg cagagaatct cataccaaat ttaaaaacca tcctgaagtg ctcaactgtc    780
ttctttccaa ctgggaaaca aacgtctggt tctctggaaa taagggcagc tggggatggt    840
aacattcctc tttattttac tttctagaca ttattgaagc ccatgaagtt ctttataaag    900
aattagaatc ctaacacaat gattcatttt tgaggtaaaa taccttaaac tgtagatgat    960
tcagagtttt tggaacagac caggaggaag gaaggaaaga gggaaggaaa cagggaagga   1020
aggaaggaaa gaagggaggg cggaagggag aaatgacaaa tctgtatctt ccacatgctg   1080
ttgctggtgg aggctaactc ttgttagatg gtacatccag aaatgagcag gataaaatta   1140
aaatctaaga gattttaaag agttaaatac acataattaa aatacacatt cacacacaca   1200
taaataaacc tacaagagag tgagttttgt tttgttttttg caattcactt acatgtggaa   1260
tgcagaacac tgtgtatctg cccaccaggg gaactgataa gatgaaccca aaaatcatgc   1320
tgggcaaagt ttatccataa ccaccgagca actaagcagc acggcttgtg aggacttggt   1380
ggctaacttc atgctgccag tgaaagacac cagcacttaa ttaagaagac taaagattct   1440
gggttagctc agaatgtatg gaggtccaac tggtggcatt gacagcttca cccccccaagg   1500
tgttttttgc tgcccagggc tcaccagaac tcccctttggc ctctgttgga ggccaccaat   1560
ggtacccaat gattacaata aattttgaga cacagacacc tatacagtag gaattggaat   1620
gaaccctcta ctcaattcac ctaagccacc tccgtaacta taaagggaac aaattttatc   1680
acctcccacc taggtcactt caaattgaaa ggctttgaat tttcagtcaa ctggcatctt   1740
cccgttatct ttcctattac atttcagact aagacaggta aggcaaatgg tcagtgatgg   1800
gtctggaggt ccaactgagc ttggaaaata atcacatttt agctgtccat aaagagatgc   1860
gcttggcacc cagaacaagc ccccagcccc caaagttaca ttgatttta aggcagattt   1920
atccaccaca ggagaaaaaa gaatcccaag cctgtattca tgccaaaatt tcctcttggc   1980
```

5293

```
taaacctttg ccatttcata aaattattaa aagcaaagta gttacagtct atgtatatat    2040
tgtacattat atatatatgt atatatgtat gtatagatat aaaaatttaa aacctacagc   ·2100
cagaggccac tgaaggaatc tgcaacagtc atatatacac aaaccagcaa tggtgtagga    2160
taaggtttct gtcccaggat tctttgctgt cacagtcccg gcgtggtgta agcaatgttg    2220
tctaatgtgt ttgacaagac ctgtttggga cagccattca attcaggtag ttgtgtggtg    2280
agacatgcca aggggccaag ggcacagata atggaatcca gaagcactga caaactgcca    2340
gacacagcca ccataccctc agtttcctgc agacggtgtc caatgaggct tagggactct    2400
cccaacagct gaagatgagc agcaacatca atgggctctg tctcagggc tttggctggt    2460
gaggctggta acagcatggt ggtgggtggg gacttcttct ggggtgacag tactcctaca    2520
gaagaggctt tgactttcat ggaaccttct gagctggatg ctttcctttt cacagttgtg    2580
gcttctgctt tgttctgttt gtgctgcaga tactgagctt tttgcttcca aatcagtttg    2640
tctttttctg gtaattgctt ccacacctca gccagttttt tactaagttc cccaaaatct    2700
atacctggat ggtcagccac aatggtcacg cgatactctt tacagaacac ctggtaggcc    2760
gacatgttct tctttttttgg ctttttctcct ctctctctct ctttgtcctt ctcttctttt    2820
ttctttttttt tttcactatg cccatctgtg tggaggccag gaagtggcag gggaggtgct    2880
gctgctccag cgtatgggat gctgggagga gggccagatg tcactgtgac ctctcccact    2940
ggcacggcag aaagtcctaa acttctcttg gacttggagt gtcgcttctc tttatgcttc    3000
tccttgtctt tcttcttttt gctcttcttt gacttctttt tcttcttgat ttctcggtaa    3060
gaatcatcta tcactaactc cccagcctct agttccccac cagaggatga gtctgattct    3120
accagaatag gttcaagccc tgaaaaatca aggttagctc tgtgggactc tgcgaactgg    3180
gaggcgtcag acccacagcc cttcaggggc ccaggagatg aatgtgcgtc tgaggatgac    3240
ttgtgctttt tccgggctgt tttcagaaag ctctgtaact catgtcctag gagtaaagca    3300
ccctgctcat cccgagctga tttctttgag gaattttttca cagtcgcttg ttgggaaggg    3360
atattgaaaa gactcctcat caacagagct gcttcccttc tcctttggtg acagaataag    3420
tttcattttt aaaccatcag gctcccgaag ggtcagtgtc tcctgtgttc acatagagag    3480
gtttcatttt tttcgatttg tgggagacac catcctctag gggtagttcc ccactgcttc    3540
cactgacttt cttcctgtgg tgctcccttt ttaactctcc cgaaatggct ttgaaagagc    3600
cagaggattt ctcccccagt cttttttggag ggcttggagc ctgctgccag tggggaagtg    3660
atagctttca acaggtccat agctgtatca gtagactgtg ggctggactt tttcttttttc    3720
ttctgtgacg attccaaaga cgaaatatct ggtgtatcac aaatgcagac tgttcttcta    3780
tgctgaatcc tccaaaatac cagccctcca cctctctcct ccttcacact ggtttatcgg    3840
cactcagaac aagaaccact gtcctccata gtagtaatca tcagaggagt gcttcctctt    3900
cttcttgtgt gtgtccgtcc ccaagaagta aagttcacta tccttcaact tcttcttgga  .  3960
agaattcctg acctgagcag caatttcttc ctcttccctt aaaaaatctt tgtaagaacg    4020
tttttttctct cgttggcttc ggccagctgc aagtcctatg tcctcaaagg tatgatcacc    4080
atcaaaacaa tcttctttct tcacggagtc atcataagcc atggtggtcc tgcagggcct   ·4140
·ttgagaatgt gtcactgtgt ccaggctcct tcccgtctac aggaccaggt cttcactcgg    4200
ctcgcccgga tcccgcctca acgccgccga tcgccgacga aa                       4242
```

```
        <400> 6636
ttttgccttt cacaggaatg ttttattgtc tctgcctgga cttctaacat agcatatgag     60
gtgaaaacac tgctttagta aaaatggaat actcttggtt acatgaaatc ccatccctcg    120
tccttcaggt ccactggagg agaagtccct cattccttgg gattggtgac gacagccgtg    180
gtggaatagg agtaggggct cagcagggcg gcaatggtgt ggtggcagca ggcgcagccc    240
agcctcgaaa tgcagaacga cgccggcgag ttcgtggacc tgtacgtgcc gcggaaatgc    300
tccgctagca atcgcatcat cggtgccaag gaccacgcat ccatccagat gaacgtggcc    360
gaggttgaca aggtcacagg caggtttaat ggccagttta aaacttatgc tatctgcggg    420
gccattcgta ggatgggtga gtcagatgat tccattctcc gattggccaa ggccgatggc    480
atcgtctcaa agaacttttg actggagaga atcacagatg tggaatattt gtcataaata    540
aataatgaaa acctaaaaaa aaaa                                           564




        <210> 6637
        <211> 2411
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (1)...(2412)
        <223> n = a,t,c or g

        <220>
        <221> misc_feature
        <222> (241)...(2411)
        <223> similar to gi3877350 in the genepept database release 114,
            Run with FASTXY 3.3t00, default parameters




        <400> 6637
ggcacgagga gatgctgatc ctacagcact cccgctgtgc ctcagcagtg agctgggtgt     60
aaaggcagga ggcttgctgg ggtctgacac ttccctgccc tcctccagga gggacacatc    120
tggggctcta tgaggaggac agctttcatc ctgggctctg gacttctctc atttgtggcc    180
ttctggaact cagtgacatg gcatcttcag agattttggg gtgcttctgg ctacttttgg    240
caagcccagt gggagaggct gctgactaca tttgaaggga aggagtggat cctcttcttt    300
ataggtgcca tccaagtgcc ttgtctcttc ttctggagct tcaatgggct tctattggtg    360
gttgacacaa caggaaaaac taacttcatc tctcgctacc gaattcaggt cggcaagaat    420
gaacctgtgg atcctgtgaa actgcgccag tctatccgca cagttctttt caaccagtgc    480
atgatatctt tccccatggg tggtcttcct ctatcccttc ctcaaatggt ggagagaccc    540
ctgacgccgt gagctaccca ccttccactg gttcctcctg gagctggcca tcttcacgct    600
gatcgaggaa gtcttgttct actattcaca ccggctcctt caccacccaa cattctacaa    660
gaaaatccac aagaaacacc atgagtggac agctcccatt ggcgtgatct ctctctatgc    720
ccaccctata gagcatgcag tctccaacat gctaccggtg atagtgggcc cattagtaat    780
gggctcccac ttgtcctcca tcaccatgtg gtttttcctt gccctcatca tcaccaccat    840
ctcccactgt ggctaccacc ttcccttcct gccttcgcct gaattccacg actaccacca    900
tctcaagttc aaccagtgct atggggtgct gggtgtgctg gaccacctcc atgggactga    960
caccatgttc aagcagacca aggcctacga gagacatgtc ctcctgctgg gcttcacccc   1020
gctctctgag agcatcccag actccccaaa gaggatggag tgagagacag cctaagtgtc   1080
atcctggctg tccctcagcc atgggatgca gacacggctt cctgattgca cctaacaatt   1140
tgcctccttc ggccacacgc cctaatgatg gcaccaccag ggtagaggga aggtcggctt   1200
cccggaaaag cagggccaag gatgaggctt tcttcaaact actgcccttg atgtccctca   1260
```

5295

```
atgggatcag gagttagctt aagaaaaagg aaaacacagc tccccagact ggaggctggt    1320
cagagggagg agacccctgg tcctctgctg tggaaggaga ggggttcagc cccagataac    1380
tcctttgtgg cctgggcagg atgcagagaa tgacaaggct gaaaggaggg ggactggagg    1440
ctgcctggct ccagcgagag ctccttctgg gaccagaggg tgggacggcc aggtatcact    1500
ttgcccettc ctgccccaaa aggctttcac atatccgact caggccagag ccaagacacc    1560
ctggcaaatc gttataggtc tcaattcatg acataccaga tgccagtcgc cacttcaccc    1620
aacacacaca caaacataca cacaccaaac actctgagtg agtggtaaag gccccgtttt    1680
aactctggcc caccgcaaac aaaaggtttc cctctgtggg ggagaaaaag aaatccagga    1740
gctcctccct ggattaaaac caacgaggtg cagaccaaac tttaacacct ttagccttat    1800
gtggaaacca aaaaccaact gctgggaaac tgtgaaaagc ccttttaccc acaaggggag    1860
gggtcaaagt tgctgccctt tggggacacc cgagacccct aattagccta tctgaatgag    1920
gaccaaaggt tagagccctc tttctccccg aagaaagagc ccggaaaaac atggcagagc    1980
aaagagcaaa atcctttctc ccccgaatgc tttaccagtt tctcagcaac atttattcaa    2040
gatgatttt accaggaacc ttatcaaagg caaaaccaca gctgcttggg ttgaagtccc    2100
catcctggcc tcctctcagc cgccagacat ggccaggaac cctgtggttc ccaagaacaa    2160
tttaaagatc actctttgat ttgaaagacc accattatca ttttactaaa ttcttatata    2220
tacttgtgcc tttttccaact ttcagttctc ttaagaaaaa catccactgt agctttataa    2280
aataccttag tatcagctag ggtccaagtc tccaggcagg actatcaaaa tgggactcct    2340
tcttcctatc agctctagaa ccccaganga cttgccagta ggccagctga gcacttacca    2400
ggcagcatct t                                                         2411
```

```
          <210> 6638
          <211> 1352
          <212> DNA
          <213> Homo sapiens

          <220>
          <221> misc_feature
          <222> (273)...(1303)
          <223> similar to gi164459 in the genepept database release 114,
             Run with FASTXY 3.3t00, default parameters



          <400> 6638
gcggccgccc tcccacagcc ccacacactg ggagaccgcc caccgcaaac cgcggagacc      60
cccgtctaga tttaaagcgc ggctgcgccc ggcttctgac gtccattgaa tcgcgcgggc     120
ggccggcggc gagcgcgggg ctgcgccggg atcgctgcgc cctccgccgc tggcctctgc     180
gacgcgcgcc gctcgcccga gccacccgcc gccgcgccgg ctccccgcgc cgctgcgctc     240
ctcgcccacg cgcctgcccc caaggatggt cccgcgcgag gcaccagccg ggtgggcttt     300
gccttctgct gctgctgctc tgccagttca tggaggaccg cagtgcccag gctgggaact     360
gctggctccg tcaagcgaag aacggccgct gccaggtcct gtacaagacc gaactgagca     420
aggaggagtg ctgcagcacc ggccggctga gcacctcgtg gaccgaggag gacgtgaatg    ·480
acaacacact cttcaagtgg atgatttca acggggcgc ccccaactgc atccctgta      540
aagaaacgtg tgagaacgtg gactgtggac ctgggaaaaa atgccgaatg aacaagaaga     600
acaaaccccg ctgcgtctgc gccccggatt gttccaacat cacctggaag ggtccagtct     660
gcgggctgga tgggaaaacc taccgcaatg aatgtgcact cctaaaggca agatgtaaag     720
agcagccaga actggaagtc cagtaccaag gcagatgtaa aaagacttgt cgggatgttt    780
tctgtccagg cagctccaca tgtgtgggtg gaccagacca ataatgccta ctgtgtgacc     840
tgtaatcgga tttgcccaga gcctgcttcc tctgagcaat atctctgtgg gaatgatgga     900
gtcacctact ccaggtgcct gccacctgag aaaggctacc tgcctgctgg gcagatctat     960
tggattagcc tatgagggaa agtgtatcaa agcaaagtcc tgtgaagata tccagtgcac    1020
```

```
tggtgggaaa aaatgtttat gggatttcaa ggttgggaga ggccggtgtt ccctctgtga    1080
tgagctgtgc cctgacagta agtcggatga gcctgtctgt gccagtgaca atgccactta    1140
tgccagcgag tgtgccatga aggaagctgc ctgctcctca ggtgtgctac tggaagtaaa    1200
gcactccgga tcttgcaact ccatttcgga agacaccgag gaagaggagg aagatgaaga    1260
ccaggactac agctttccta tatcttctat tctagagtgg taaactctct ataagtgttc    1320
aggggtgaca tagcctttgt gcaaaaaaaa aa                                   1352
```

```
        <400> 6639
tgtgtgtgtg tatgagagac gtgcacctat gttagcctga ggagtgtatg tctgtcagga      60
cagcaggggc ctcaagactc aggactttta ttaggcctcc agttatggcc ttccaggaag     120
cccggcgcgg agaagcagca gaatcataga gattaataaa gaatgacgtt tggaaatgga     180
gtgatccaaa agtgatcgcc accattcctc ccgcaatgac ccaccgccct gaccagagga     240
gatcagccct aaaagttaa cttctacagc aaaaccctct tagtaaaggg caacaaagac      300
tacatcctga cacctccaag gggcacacgg tttttacagc acgtttatt attcataaaa      360
aaataaattt atttacatat gttatttcct gtggtagtgc agcctcgggg caagggcgcg     420
ttccctatcg caggatcact tgctatggta agccgcccac cctcgcgcgc tcctccgcgc     480
ggggagagaa cctgcgcggc aggaccgtgg gtgttggagt tggggctccc ggagcgtcgg     540
agtggggaga cctgatgcag agagtctgga gtcggagctg ggggtgctgc aggtaggacg     600
caggagcgga ggcggaagaa gggaaggccc gaaagaaaga cccccacaca ggtttggcgc     660
acgggggggct ttggggaagg cttcagccca ggaaagttgg aaaagggttt gacaagacgc    720
cttgccttga tttaagaaaa aagcccgggg aactttgggg aaggagaccg gatttgaaga     780
aagccacccg gcaggaaagg cccgaaacgc caaggagctc tcccgggtaa aacccgcctg     840
cggtgattct tgggaaatgt gtctccacct agccctgcga gcagcggcct ttcttcccgc     900
ccgttagaag ggcgctgtgc tggagtacga acccggccca gagaagccac tcgcccttct     960
ttgtcactta aaaccctgtc ccgaacgcgg aatctcacgt ctagacctct gtctttaaag    1020
cggatgtaga gcgcgttcta accgttccct aacccattgt gtcaccgcga aaggccgggg    1080
ctgtgtggaa ccgtcccccc acgtgtgcga tgaatcttgg tccgcttgag aacggatccg    1140
tgggcttgtc tggcgcgggc tggggcagca gccgagagtt agtctacaga gctagggccc    1200
gagggtggac ctgcgtccgc gtctcgtcac gaaaggaagc tcttttttgga gaggcaaaac   1260
gtggtcgccc agatccggcg cagctgtagc cgtgggcgct gtgcagtgac agccacaccc    1320
gccacctgtc acgatcacag ttccagggaa aggggaaggg tcaaggagaa tccagcggaa    1380
acttcttccc atctcacgag ctctcccttc tctccgtggc ccccaaacac tcgcatttaa    1440
cgaataatcc catcaagtga gttccagtcc gatttaagcg gtggttccac atagtctgtt    1500
ggctgcggaa acttctttgg tgtcagagtc cggtcttccc gagaccacga atggccatgt    1560
caggttcact gggtgcacgt agccgttctc atagcggtcc tcctgcaaca gctgccgcag    1620
gtgagcgatg taactggaag ccagccggag cgtgtccagc ttggagagct tagtgtcggg    1680
gggcacccag ggcaggctgg tcttgagcct ggagaaggct ttgctcagca cgcgcatccg    1740
ggcacgctca cgggcgttgg ccgcgttccg ctgcgactgc ttgcactctg cggctgagcc    1800
cttggccggg aggggcttct tgccaccacc gcccgcgcta ccacctgcgc cgccgccccc    1860
```

```
agccacacgg ggccgcttcc tcttgcagcc ttccgcgctg ccggctgtgc ccagagcgca  1920
gcgctcctcc tcgccgtcgg ggtcctcctc ctctgccgac gagttgtcac tgggcgaggc  1980
gtagctgcgc tctacgccgc ggaggggcgg cctcttggag gcggggaccg ggtactcccg  2040
ctgcagcccc cgaagctcca tctcctccgg atcactcacc gagcccgtgg acatcccgtt  2100
gtccccttg cccacacgcg tcctctttcc tccccctgg ccagtctcgc tgtctccgcc    2160
ttccgctccc tggcggaggc ggaggccaga gagcgctcca aggaagacta aaaacccagg  2220
ccgggaagcg cggggtgaga aagcgaggtg ggtggcgaga gcgtgagcgc ccctctgctg  2280
accccggggga gcgtggacta cgagttggcg cccaagtcca gaatccgcgc gcaccgcgga  2340
aaatatttgc aatacctgcc acgtccaagg ttcagctgag gccaatgtaa agccagtatt  2400
ataggacact tctcagactg agagcccaat gtcgttggaa accactgggc cacaggaaag  2460
gcaggctctc tcagtcctgc tcctgccatg gaagaagcct gctcccacca tgccttctgc   2520
cacgagtaaa agttccctga ggcctcccca gaagcagatg ctgtcgtgct tcctgtatag  2580
ctgcagaact acttcaaatc atcccaacac cagagaacac taaatgacag tggacag     2637
```

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      <400> 6640
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ttaaaaataa caacaacaaa aaacctgtgt gcatctggct gacacttccc tgcttctggt   120
tttcgaagac tatttagtgg aaccttgtag aggagcaggg tcttcctgca gtgcctggaa   180
aacaggcgct gttttttttgg gaccttgcgt gaagagcagt gagcagggtt cctgtggttt  240
ccctggtccc tctgagatgg ggacagactg aagacagagg tcgtttgatt tcaaagcaag   300
tcaacctgct tttttctgtt tttacagtgg aatctaggag gccacttagt cgtctttttt   360
tcctcttaga agaaaagcct gaaactgagt tgaatagaga agtgtgaccc tgtgacaaaa   420
tgatactgtg agaaatgggg cattttaatc taagtggtta taacagtgga ttctgacggg   480
gaaggtgtag ctctgttctc ttcggaagac ctcgttttct aaaggctgga ctaaatggct   540
gcagaactcc ctttggcaaa aggcatgcgc tcactgcttg cttgtcagaa acactgaagc   600
catttgcccc agtgtggtca agcagccatg ctttctgggc attttcgtcc tcccataatt   660
tcatatttcc gtaccctga ggaaacaaaa aggaaatgag gagagaaagt tactgttaag    720
ggtggttaac attttttttg ttttgttttg ttttggtttt ttttttttttg aaacaaagtt  780
tggttttttc ccccaggctg gagtgcaggg gcccaatttc ggctcatagc aagctccgcc   840
tcctgggttc atgccattct cctgcctcag cctccaaagt agctgggact acaggggccc    900
gccaccacac ccggctaatt ttttgtgttt ttacaaaata caaaaaagta gagacaggat    960
ttcactgtgt tagccaggat ggtcttgatc tcccgacctc gtgatctgcc cacctcagcc  1020
tcccaaaatg ctgggattac aggcgtgagc caccgagcct ggccggttaa catctttaa   1080
ttgtttccag gattgagcag gttctcagct gggctctgat atcccgtgcg gagttggaca  1140
agtgggcagc ataaagtcac tcatttctta ccattttatt cccctcaatt ctcaatatat  1200
tcagtaatga agaatggtgc caccactcaa gcaacaagcc tcaaactcac ccatgtcatc  1260
tttttcttgg atgattgcag ttatttcaaa aatttgcatg caaaatatac actcatccta  1320
cttcaagatg gtggtggcaa tagtcaggag aaggtagcat tggagtcctg gtttgattcg  1380
aaggatgaag acgaagaagc aagggaggaa caaatgaaga accatctttg gtcatgaata  1440
```

5298

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ggaatattca agattataaa ggtatcaggt ctcctaaaat tgatctatgg atttaatacc    1500
attttcaatg gaaattccaa cagattttat tgaatgaaac aagcaggtgt ttatatggag    1560
tagcaaagga cttaaaatta ccaaatgctt ctaaatatga aggagaggtt ggggacacgc    1620
accctatgtg ataccaagtt ttattgtcaa gacagtgtca tggtgcagag gtaggcattc    1680
tgagcagggg aacaaaataa gggcctagaa actcacccgt gcatatgttg acctttgcaa    1740
aatgacctgg tgacatggca agtcagtggg gacaggaagg accactccct aagtaatccc    1800
agaacaatgg ctattcatgt gggaaaaaaa gaaattttac tttctctcac cttacctggt    1860
gataagttcc aaatatgtta agggctttaa tacaaaaagc aaaaattgtc agtgtttgga    1920
tgaaaaaagc cttagggcag gaaagaatct cttgagacat aaagtagtaa tcataaagga    1980
caagatggtt aagtcaattc tgttaaaact caaggcttat attaagcaaa cacttgaagt    2040
gagaagatga tccacaactt gagaagacat ttataataca aataactgat gaaggattca    2100
taatcacaaa tatagagaat tcctatttaa aaaaatagaa aaatagtgaa gactacacaa    2160
gaggaaatag ggcttttaaa taaatagatg ttctgtagca ttggtcaggg aaatatgaat    2220
taggaccaca atgagattcc attttatatc cataagattt gcaaaggttg ggtctgacag    2280
taccagttgt tagatctgta gggacttgta caacattgtg gatgtgtaaa caggcaccac    2340
tgctttaaaa aacaattatc ccttacagac ttgaacattt gcagacgtta tgatcttgct    2400
tccaactccc acctgtatgt ccagcaaact cttgcatgtg gccactagga ggaatgtgta    2460
agaatgttca tagttacata tttataatag ttaataactg gaaaaagtga aatgtatgtc    2520
tgtctacagg aaaataggtg aataattaga tatatgtatt cattctacgg gatattattc    2580
agtagtggaa atgagtgaac tacagctata cctcacaata agaatgaatc tcagaaaata    2640
ttaaggaaaa aagcaagttt gaagagacca catgggcgt actatttta ttgagcccaa    2700
aaacaagcaa aaccaaagaa tatgtagtct aagcatacgt atacaataaa actatgctat    2760
taaaaaaaaa aggtaactga taaaccaaaa ttgagcatag taattaccca cagaaggagg    2820
aagtggaagg gacaggagca cataggtaga tgccaagtta tgcagctgtt ctggttcctc    2880
ctggtaggct tacaagtgtt tactatatgc tattaataca ttatacttta taactaatag    2940
ataacagttt tttacatatt aaatatgttc tacttaaata tattataaaa aataaaggca    3000
aagtggaatg ataacctaaa aaaaaaaa                                       3028
```

<210> 6641
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (591)...(168)
<223> similar to gi5869981 in the genepept database release 114,
      Run with FASTXY 3.3t00, default parameters

<400> 6641
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tttttaaaaa tttttaaatg tttaatcaca agtcagtagc atgacatcat tagtagagta      60
gagtctgctg acattacaat ctattgatct ccccagagtt accaaaagta gttcacaata     120
gttaggcttc cttctgtcca tagttcaggg catattcaaa gtctctaaaa gctgacgtga     180
ccatctggaa tctcgatcta acttccctga atacctcaag aacagtcctt tccggtaatt     240
tgggagccac ctgcctaaat gctttttga aatcttccaa agttaaaaat ccacgatagt     300
aggtgtcaaa ggctgtgaag atgtgtctta cttcgttccg atatcgttga gcttccttct     360
ttttcctgac aatatttaaa aacccctcga gtaatatacc agaagtattt ggatttattg     420
aagacatcac agaatccact tctatcttgg agggcttgta cccaaacagc attacaacag     480
cagttttaaa gtcctctctg ctgagatatc ctttgtgatc ttcatcacat gctttaaata     540
cttccaccca cttcctgtgt tccgagggac tggcttccca cgtccgcgac ctggctctgg     600
```

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        <210> 6642
        <211> 2086
        <212> DNA
        <213> Homo sapiens

        <220>
        <221> misc_feature
        <222> (78)...(1016)
        <223> similar to gi5531815 in the genepept database release 114,
          Run with FASTXY 3.3t00, default parameters



        <400> 6642
tcacggccgg cgcctcctcc tggattcatt cactcgctct tttcattcac gaaggtagtg      60
aggcctagtg gaaagccatg gagagcgctc tccccgccgc cggcttcctg tactgggtcg     120
gcgcgggcac cgtggcctac ctagccctgc gtatttcgta ctcgctcttc acggccctcc     180
gggtctgggg agtggggaat gaggcggggg tcggcccggg gctcggagaa tgggcagttg     240
tcacaggtag tactgatgga attggaaaat catatgcaga agagttagca aagcatggaa     300
tgaaggttgt ccttatcagc agatcaaagg ataaacttga ccaggtttcc agtgaaataa     360
aagaaaaatt caaagtggag acaagaacca ttgctgttga ctttgcatca gaagatattt     420
atgataaaat taaaacaggc ttggctggtc ttgaaatcgg catcttagtg aacaacgtgg     480
gaatgtcgta tgagtatcct gaatactttt tggatgttcc tgacttggac aatgtgatca     540
agaaaaatga taaatattaa tattctttct gtttgtaaga tgacacaatt ggtactgcct     600
ggcatggtgg aaagatccaa aggggctatt ctgaacattt catctggcag tggcatgctc     660
cctgtcccac tcttgaccat ctattctgca accaagactt ttgtagattt cttctctcag     720
tgcctccatg aggagtatag gagcaagggc gtctttgtgc agagtgtcct gccatacttc     780
gtagctacaa aactggctaa aatccggaag ccaactttgg ataagccctc tccggagacg     840
tttgtgaagt ctgcaattaa aacagtcggc ctgcaatccc gaaccaatgg atacctgatc     900
catgctctta tgggcttgat aatctcaaac ctgccttctt ggatttattt gaaaatagtc     960
atgaatatga acaagtctac acgggctcac tatctgaaga aaaccaagaa gaactaagca    1020
ttgataactg cattgtaact tggccagatg ctccagcata tgcacgttca ctgcaaagca    1080
ccctactggt tttgaaaatc tgaccttgtc atttcaatag ttattaacat gactaaatat    1140
tatcttaatt aagaggaaaa tagaagttgc ttttaggggt ttctgacata tattctggat    1200
actatccgag gtaattttga agtttaatat aaatgctcat atcaaatgaa tatagaacta    1260
atattgtcgg gaacacctaa tagaaaggaa tactattata gcaaatcaca gaatgataga    1320
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attttctctg aaactgatta taaaaaccaa tgtccagcta ctcttttgtt tttgacactt    1440
gaagaaatgg agatcgattt gatttgttta taagcagaca cactgcaatt tacaaagatc    1500
tctttacggt tttataaaat tatcttccag tttgtacatt tatatggaat tgttctttat    1560
caagggtagc taatgacatg aaaataattg tgaaatatgg aattatttct gacacatgaa    1620
gcccactaaa ctatgctttc ttataatgca tatttcttct cagtttaaat gtatgtaaat    1680
atcgaagcta tatggtatga tttataaaga taaatgggcc aaagtgtaca ttgagactgg    1740
cagccatcta tggtaccact gaaaccctga cccagaaaag tggcttgctt ggacacccag    1800
ctgcctttgt ttctgcatta aaccaatatt gatcacacat atgacacagg ctagtcctat    1860
aaaagtaatg acttcataga aatggcatta taatttttaa gttgatactc tacaggtagc    1920
tattgatata attagtttta ataaaacatg ctgcaaccat ggtatacaac aaaaatacat    1980
ttctttggtg attgaaatta aggccgtatt tacaatgact taatataaga ctgacctttt    2040
atcctgcttc ataaccttgt atggagaact caccaagaaa agaatt                   2086
```

<210> 6643
<211> 6622
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (298)...(5441)
<223> similar to gi5006445 in the genepept database release 114,
    Run with FASTXY 3.3t00, default parameters

<400> 6643
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cgccgagggg aggagagcgg cccatggacc cgcggggccc ggcgccccag actctgcgcc   120
gtcgggacgg agcccaagat gtcggcctag gccggggcgc gacgacgcgg acggggcggc   180
gaggaggcgc cgctgctgcc ggggctcgca gccgccgagc ccccgagggc gcgccctgac   240
ggactggccg agccggcggt gagaggccgg cgcgtcggga gcgggccgcg cggcaccatg   300
tcggccaagg tgcggctcaa gaagctggag cagctgctcc tggacgggcc ctggcgcaac   360
gagagcgccc tgagcgtgga aacgctgctc gacgtgctcg tctgcctgta caccgagtgc   420
agccactcgg ccctgcgccg cgacaagtac gtggccgagt tcctcgagtg ggctaaacca   480
tttacacagc tggtgaaaga aatgcagctt catcgagaag actttgaaat aattaaagta   540
attggaagag gtgcttttgg tgaggttgct gttgtcaaaa tgaagaatac tgaacgaatt   600
tatgcaatga aaatcctcaa caagtgggag atgctgaaaa gagcagagac cgcgtgcttc   660
cgagaggagc gcgatgtgct ggtgaacggc gactgccagt ggatcaccgc gctgcactac   720
gcctttcagg acgagaacca cctgtactta gtcatggatt actatgtggg tggtgattta   780
ctgaccctgc tcagcaaatt tgaagacaag cttccggaag atatggcgag gttctacatt   840
ggtgaaatgg tgctggccat tgactccatc catcagcttc attacgtgca cagagacatt   900
aaacctgaca atgtcctttt ggacgtgaat ggtcatatcc gcctggctga cttttggatca   960
tgtttgaaga tgaatgatga tggcactgta ggtgcagtcc ctcccgtggc cgtgggcaca   1020
cctgactaca tctcgccgga gatcctgcag gcgatggagg acggcatggg caaatacggg   1080
cctgagtgtg actggtggtc tctgggtgtc tgcatgtatg agatgctcta tggagaaacg   1140
ccgttttatg cggagtcact cgtggagacc tatgggaaga tcatgaacca tgaagagcga   1200
ttccagttcc catcccatgt cacggatgta tctgaagaag cgaaggacct catccagaga   1260
ctgatctgca gtagagaacg ccggctgggg cagaatggaa tagaggattt caaaaagcat   1320
gcgttttttg aaggtctaaa ttgggaaaat atacgaaacc tagaagcacc ttatattcct   1380
gatgtgagca gtccctctga cacatccaac ttcgacgtgg atgacgacgt gctgagaaac   1440
acggaaatat tacctcctgg ttctcacaca ggcttttctg gattacattt gccattcatt   1500
ggttttacat tcacaacgga aagctgtttt tctgatcgag gctctctgaa gagcataatg   1560
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5302

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<220>
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      Run with FASTXY 3.3t00, default parameters

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5303